

Information & Communication Technology

Reading Book Grade 6

Educational Publications Department



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The National Anthem of Sri Lanka

Sri Lanka Matha

Apa Sri Lanka Namō Namō Namō Namō Matha

Sundara siri barinee, surendi athi sobamana Lanka

Dhanya dhanaya neka mal palaturu piri jaya bhoomiya ramya

Apa hata sepa siri setha sadana jeewanaye matha

Piliganu mena apa bhakthi pooja Namō Namō Matha

Apa Sri Lanka Namō Namō Namō Namō Matha

Oba we apa vidya

Obamaya apa sathya

Oba we apa shakthi

Apa hada thula bhakthi

Oba apa aloke

Apage anuprane

Oba apa jeevana we

Apa mukthiya oba we

Nava jeevana demine, nithina apa pubudukaran matha

Gnana veerya vadawamina regena yanu mana jaya bhoomi kara

Eka mavakage daru kela bevina

Yamu yamu vee nopama

Prema vada sema bheda durerada

Namō, Namō Matha

Apa Sri Lanka Namō Namō Namō Namō Matha

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**Being innovative, changing with right knowledge
Be a light to the country as well as to the world.**

Message from the Hon. Minister of Education

The past two decades have been significant in the world history due to changes that took place in technology. The present students face a lot of new challenges along with the rapid development of Information Technology, communication and other related fields. The manner of career opportunities are liable to change specifically in the near future. In such an environment, with a new technological and intellectual society, thousands of innovative career opportunities would be created. To win those challenges, it is the responsibility of the Sri Lankan Government and myself, as the Minister of Education, to empower you all.

This book is a product of free education. Your aim must be to use this book properly and acquire the necessary knowledge out of it. The government in turn is able to provide free textbooks to you, as a result of the commitment and labour of your parents and elders.

Since we have understood that the education is crucial in deciding the future of a country, the government has taken steps to change curriculum to suit the rapid changes of the technological world. Hence, you have to dedicate yourselves to become productive citizens. I believe that the knowledge this book provides will suffice your aim.

It is your duty to give a proper value to the money spent by the government on your education. Also you should understand that education determines your future. Make sure that you reach the optimum social stratum through education.

I congratulate you to enjoy the benefits of free education and bloom as an honoured citizen who takes the name of Sri Lanka to the world.

**Akila Viraj Kariyawasam
Minister of Education**

Foreword

The educational objectives of the contemporary world are becoming more complex along with the economic, social, cultural and technological development. The learning and teaching process too is changing in relation to human experiences, technological differences, research and new indices. Therefore, it is required to produce the textbook by including subject related information according to the objectives in the syllabus in order to maintain the teaching process by organizing learning experiences that suit to the learner needs. The textbook is not merely a learning tool for the learner. It is a blessing that contributes to obtain a higher education along with a development of conduct and attitudes, to develop values and to obtain learning experiences.

The government in its realization of the concept of free education has offered you all the textbooks from grades 1-11. I would like to remind you that you should make the maximum use of these textbooks and protect them well. I sincerely hope that this textbook would assist you to obtain the expertise to become a virtuous citizen with a complete personality who would be a valuable asset to the country.

I would like to bestow my sincere thanks on the members of the editorial and writer boards as well as on the staff of the Educational Publications Department who have strived to offer this textbook to you.

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We would be grateful if you could send your suggestions and comments on the content of the grade 6 - 11 Information and Communication Technology textbooks and on the development of the creativity of the students to **feedbackicttextbook@gmail.com**

Editorial Board



1

Importance of Computers

1.1 Let's get to know the Computer

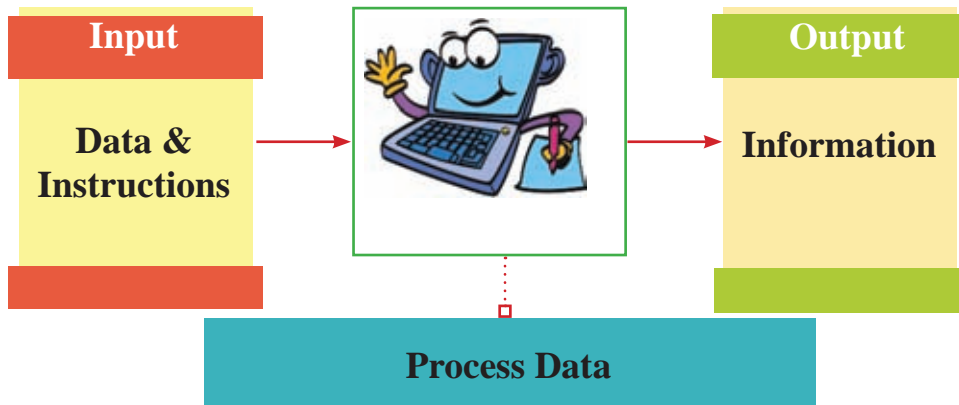


1.1.1 Functions of a Computer

The basic functions of a computer are entering data, processing them and producing processed data (information).



Figure 1.1 - Basic Functions of a Computer

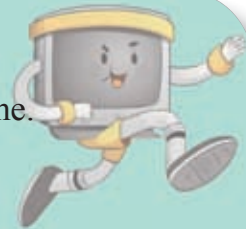


Activity 1 - See 1.1 in the Workbook.

1.1.2 / Significant Features of a Computer

Speed and Efficiency

- It can finish any given task within a very short time. (It can perform billions of tasks in a second.)



Accuracy

- It can provide correct information when correct instructions and data are given.



Reliability

- You can rely on the process and the output.

Consistency

- It produces consistent output when the same input is given.

Storage Capacity

- It can store a large amount of data. It can obtain them at any given time for any process.

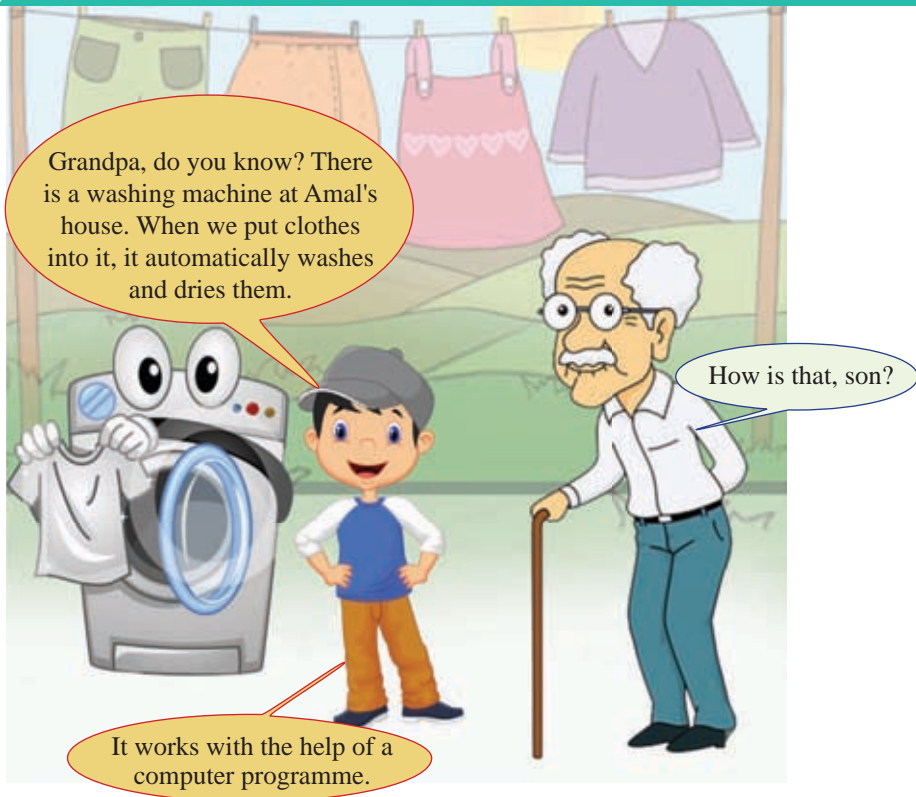
Cost

- Though the initial cost is high, the maintenance cost is not so.

Intelligence

- It can act according to the given instructions. But it cannot take decisions on its own like a human being.

1.1.3 Devices with Embedded Computers



Equipment like washing machines, mobile phones, modern motor vehicles and modern televisions are operated by computer programmes. Computer programmes included in such equipment are known as Embedded Computer Systems.



Figure 1.2 - Some Devices with Embedded Computers

1.2 / Let's identify the Components of a Computer

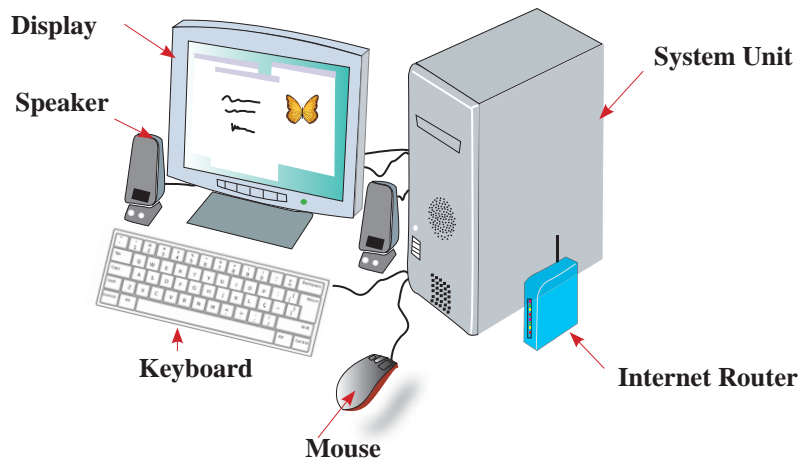


Figure 1.3 - Components of a Computer

A computer is a unit which consists of many parts. We can categorise those parts into components according to the nature of the functions they do.

- Input Devices
- Output Devices
- Central Processing Unit
- Main Memory
- Storage Devices
- Communication Devices

● Input Devices

The devices which are used to enter data and instructions to computers are called input devices.



Figure 1.4 - Some Input Devices

● Output Devices

The devices which are used to retrieve the data and information are called output devices.



Figure 1.5 - Some Output Devices

• Central Processing Unit (CPU)

Controlling the computer and processing data according to the given instructions are done by the Central Processing Unit.

The Central Processing Unit is located inside the system unit. It cannot be seen from outside.

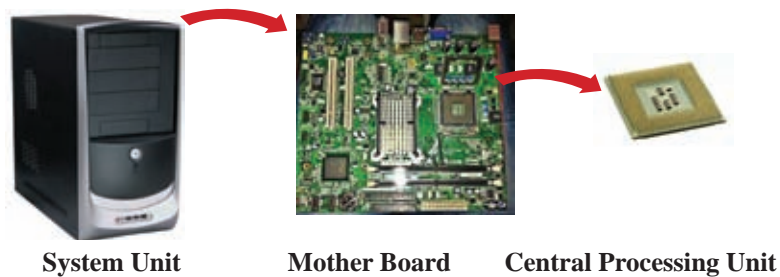


Figure 1.6 - Location of the Central Processing Unit

• Main Memory

The device which is used to store data, information and instructions temporarily is identified as the main memory or the primary memory. It is also called the Random Access Memory (RAM).

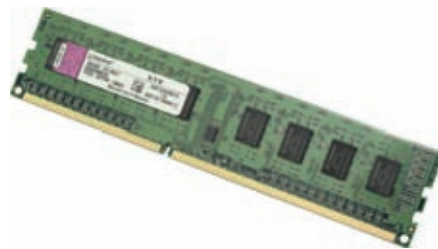


Figure 1.7 - Random Access Memory -RAM

● Storage Devices

The devices which are used to store data, information and instructions are called storage devices.

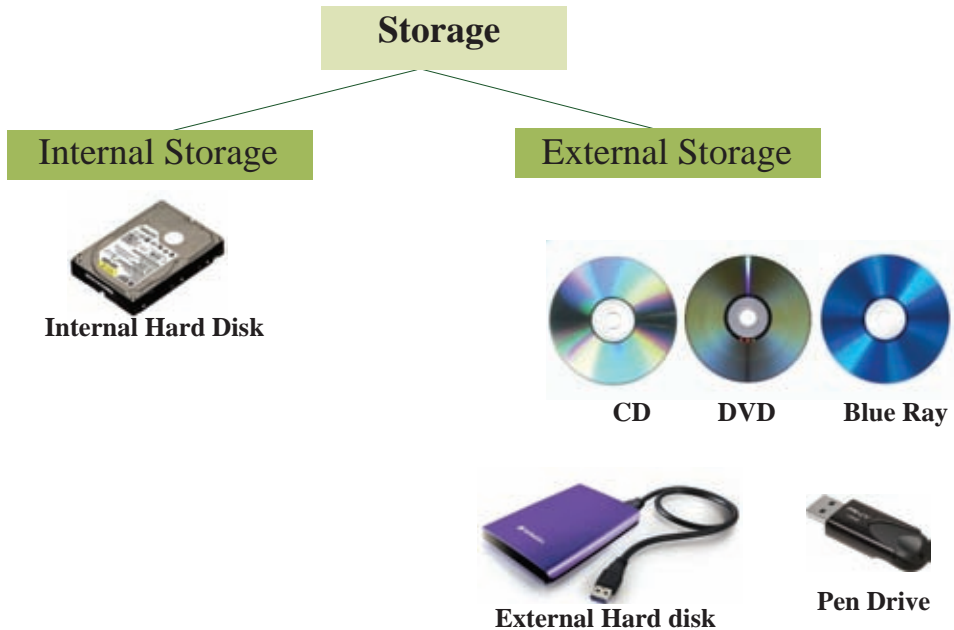


Figure 1.8 - Some Storage Devices

● Communication Devices

The devices which are used to exchange the processed data and information are called communication devices.



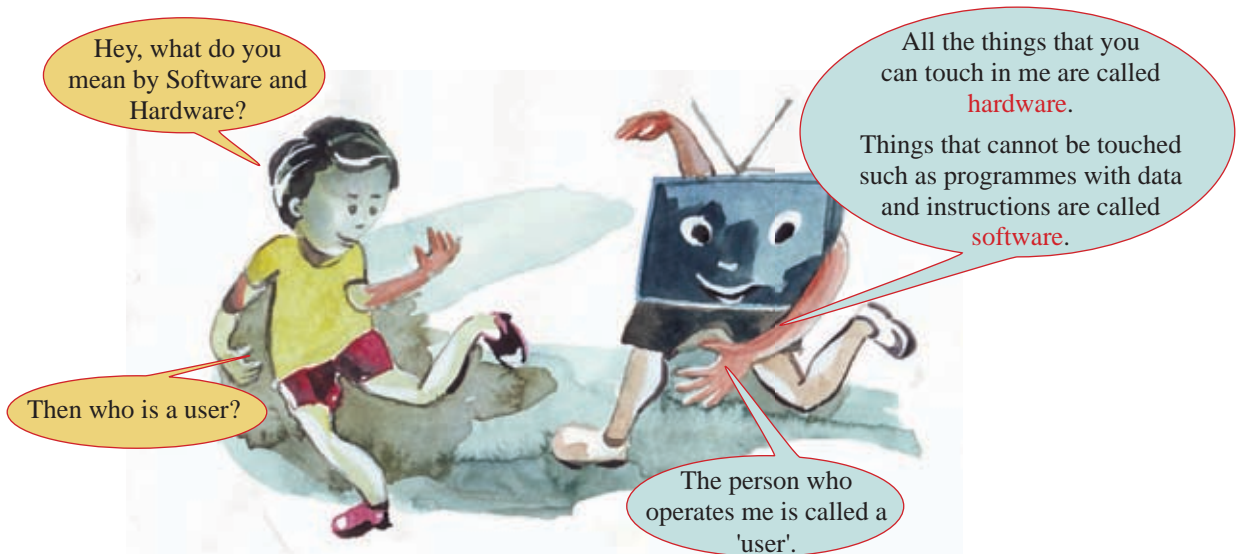
Figure 1.9 - Wired/Wireless Communication Devices

1.3 Importance of Software

A software is a set of programmes designed to execute certain tasks by using a computer.



Activity 2 - See 1.2 in the Workbook.



A user can do different tasks by using software. There are various types of software to fulfil the needs of the user.

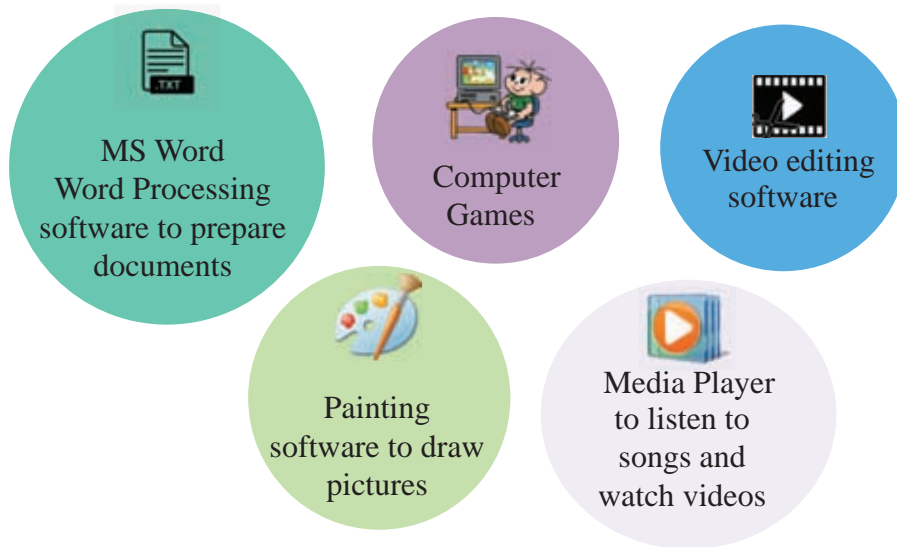


Figure 1.10 - Some Examples for Software

You can study more about software in the forthcoming chapters.

1.4 Application of Computers in Various Sectors

Activities in all sectors have become easy by the use of computers. Several examples for such sectors are given below.

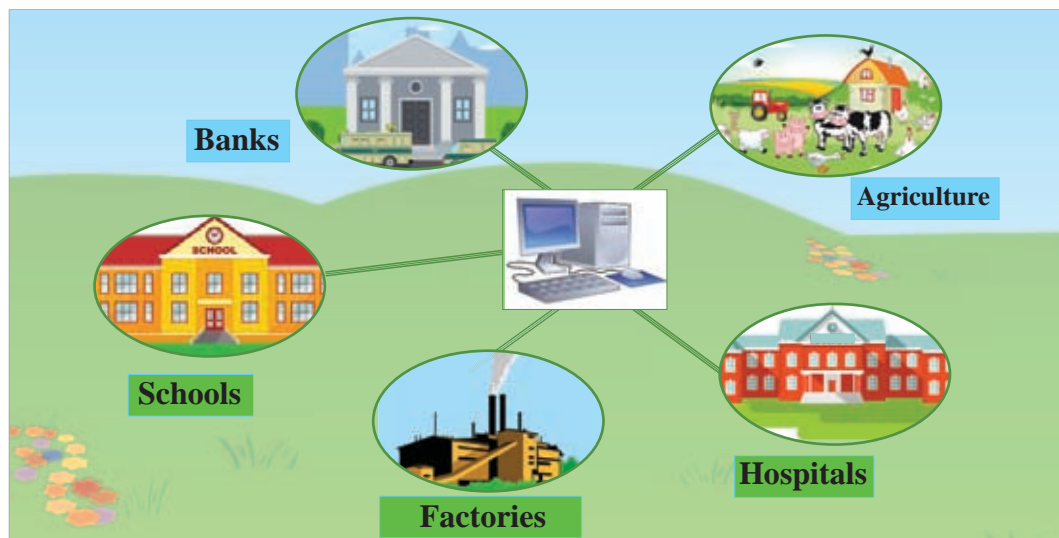


Figure 1.11 - Various Sectors that use Computers

1.4.1 Schools

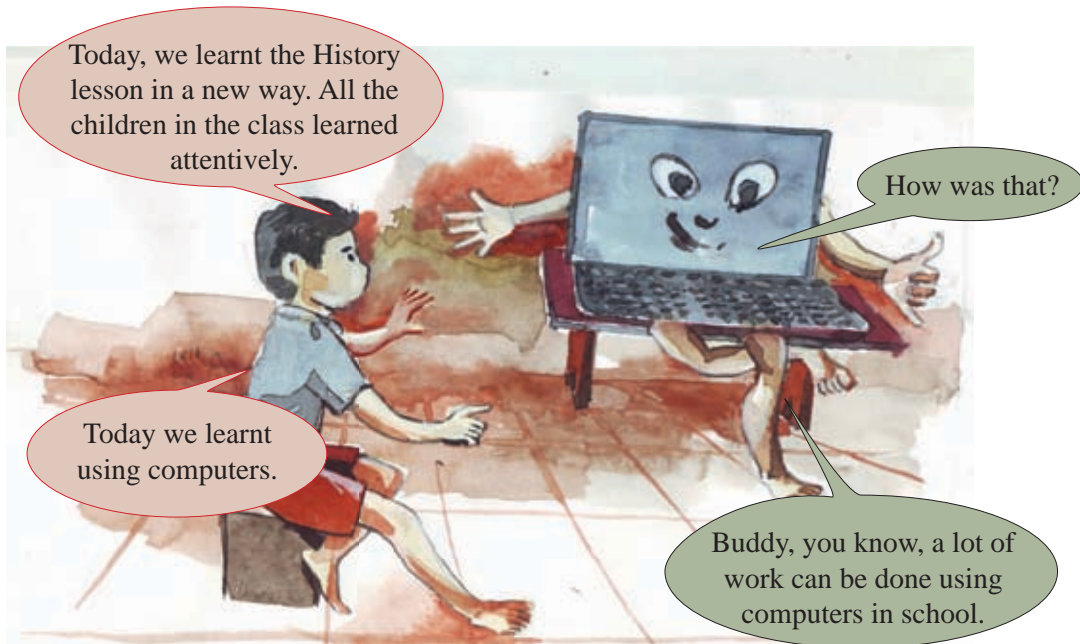


Figure 1.12 - Working in the school office using computers

Computers simplify work and bring effectiveness to office work in the school system.

Computers are used instead of blackboard and books in the learning process.



Figure 1.13 - Computer enabled Learning Situation



Figure 1.14 - Getting knowledge from the internet

Obtain additional knowledge related to subjects by accessing the internet.

1.4.2 / Banking

Computer has become an essential tool in the banking activities.



Figure 1.15 - An ATM machine

Use of Automated Teller Machine (ATM) to deposit and withdraw money.

Using electronic cards to settle bills when purchasing goods.



Figure 1.16 - Paying bills by electronic cards



Figure 1.17 - Internet Banking

Internet banking and mobile banking are latest trends in the banking system.

1.4.3 Hospitals

There are many examples of using computer systems in hospitals.



Figure 1.18 - Thermometer

Digital thermometer is an embedded computer device which can be used at home.

Use of computer and embedded computer devices in Intensive Care Unit (ICU).



Figure 1.19 - Use of computers and computer embedded devices in ICU



Figure 1.20 - Use of computers and computer embedded devices in an operation theatre

Use of computers and computer embedded devices in an operation theatre.

1.4.4 Factories



Figure 1.21 - Use of Robotic Technology

- Human labour is replaced by computer devices. As a result, production can be increased.
- The use of robotic technology is a latest improvement in industrial work. Activities in industrial sector have become easier by that.

1.4.5 / Agriculture



Embedded computer devices are used in various activities such as harvesting, weeding and water supplying. Thus, the productivity can be increased by minimising expenditure.

Figure 1.22 - Supplying Water and Fertilizer using Modern Technology in Agriculture

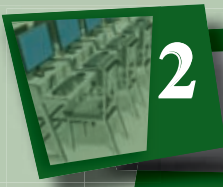


Activity 3 - See 1.3 in the Workbook.



Summary

- ★ The main tasks of the computer are input, processing and output.
- ★ Input devices, memory, CPU, output device, communication devices are identified as the main parts of a computer.
- ★ Software is essential to do different tasks of the user.
- ★ Computer is used for various activities of day to day life.
- ★ Smart phones, modern televisions and washing machines can be identified as equipment with embedded computer systems.



2

Use the Computer Laboratory Safely

2.1 / Let's Identify the Computer Laboratory



I welcome all of you to the computer lab. This computer lab is a valuable resource in our school. Since you all are new to this place, you need to know about this computer lab and how to use it well.

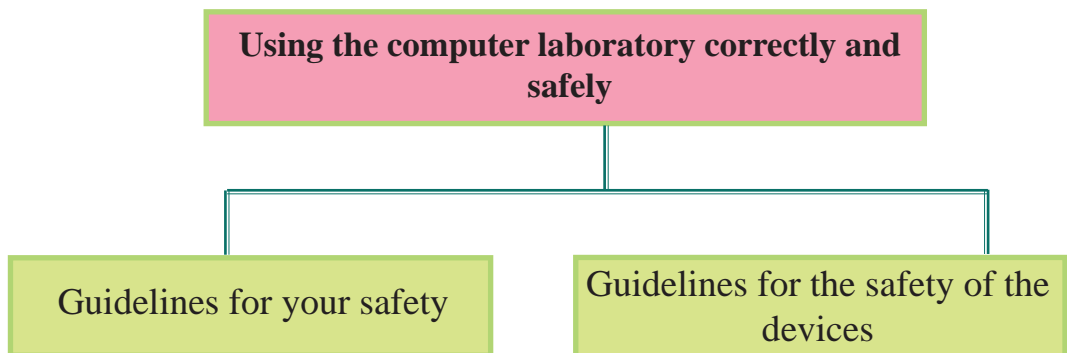
Computers and other accessories have been installed in the computer laboratory. Printers, scanners, multi-media projectors are some of them.

Computers and other accessories in a lab are expensive and valuable. A large amount of money have to be spent to repair a device, if it is damaged or to replace a new one. Therefore, it is your responsibility to use them properly and keep them safe.



Figur 2.1 - A Computer laboratory

2.1.1 / Let's use the Computer Laboratory Correctly



For your safety



Be careful when you touch devices such as wires and sockets that are connected to electricity.



Should be aware of the exit doors of the laboratory.



Should be aware of fire extinguishers if any.

Avoid running and playing inside the computer laboratory.



For the safety of the devices



Do not supply power to devices without correct instructions.



The laboratory and all the equipment should be kept clean and dust-free.



All the equipment must be switched off properly after use.



The used equipment should be placed in the proper place.



Footwear should be removed and placed outside the laboratory.



Avoid taking food, water or other liquid into the laboratory because they may damage the equipment.



Virus scanning should be done when connecting external storage devices such as flash drives to the computer.



Activity 1 - See 2.1 in the Workbook.

2.2.1 / Let's operate the Computer

We must practise to operate the computer correctly from our childhood. For that follow the guidelines given below.

1

First, supply electricity to the computer by turning on the switch connected to the computer.



2

If the computer is connected to an uninterrupted power supply (UPS), turn it on.



3

Next, the system unit should be switched on.



4

Finally, the monitor should be turned on.



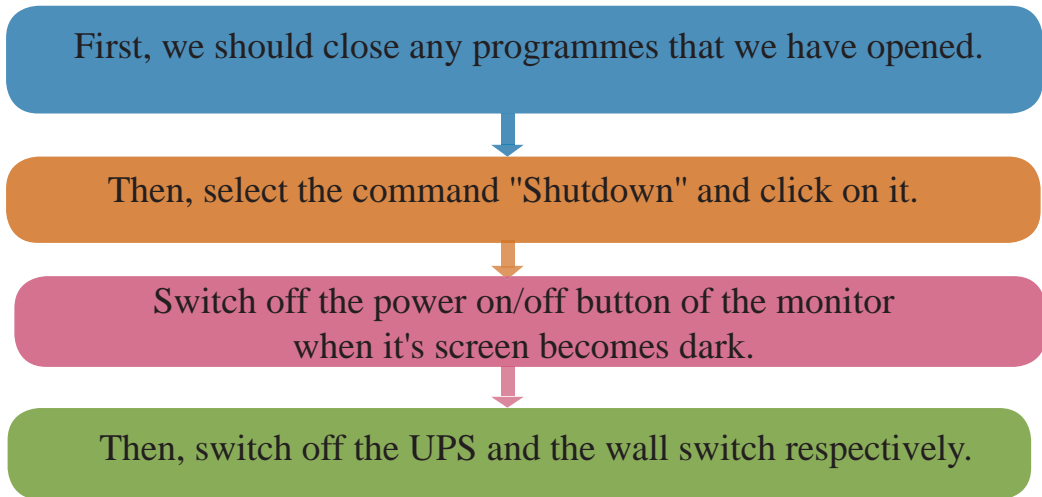
Anyhow, the above steps may differ in modern computers (like laptop computers) which come with a single power button.



Please follow your teacher's instructions at all times since the above steps might be different in your laboratory.



The functioning computers should be shut down in a proper way. Otherwise, the life span of the computer may be shortened.



2.2.2 / Let's learn Computer Ethics

“මහත් සෙත් වඩවන
 සිරිත් මල්දම් බලමින
 සිරිත් හොඳ දැනගෙන
 මහත් යසසිරි ලබනු දෙලොවින්”
 - සිරිත් මල්දම

“Mahath seth wadawana
 Sirith maldam balamina
 Sirith honda denagena
 Mahath yasangiri labanu delowina”
 - Sirith Maldama

Meaning : Read Sirith maldama. It brings you peace. Learn and practise good values from it and it will bring you good fortune in this life and lives to come.

Dear children, you always get advices to be a good child at home and at school. These advices are called ethics, values, or good customs.

Good practices help to lead a good life. Similarly, there is a set of ethics that should be followed to use the computer properly. They are identified as 'computer ethics'.



Activity 2 - See 2.2 in the Workbook.

This code of ethics can be considered as a set of guidelines that help you to use the computer properly.



When we use the computer laboratory...

we must use computers without disturbing others.

we must avoid hacking computer activities of others.

Software which should be used by paying money should not be fakely used or copied.

we must refrain from accessing computer files and articles of others without permission.

we must not repair any computer devices without proper instructions.

we must not access the internet without the supervision of teachers.

we should not uninstall/ change/ delete any programmes without the permission of the teacher.

In addition, there can be some other rules and regulations related to your laboratory.

The above regulations are for grade 6 students like you. You will learn more on computer ethics in the forthcoming grades.



Activity 3 - See 2.3 in the Workbook.

2.2.3 / Let's use Correct Postures when using Computers



It is common for various health problems to occur when using computers constantly. Most of the illnesses occur due to the lack of maintaining a correct posture. So we need to practise maintaining a correct posture from our childhood.

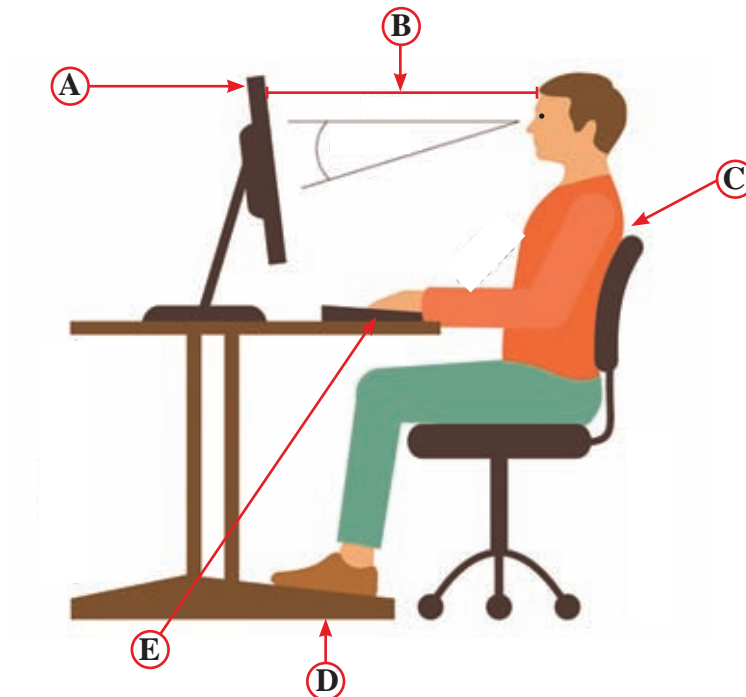


Figure 2.2 - Maintaining a Correct Posture when using a Computer

Correct postures to be followed	When correct postures are not maintained
A. Always keep the computer screen at the level of your eyes or little below.	Pain in the eye, problems in eyesight and tearful eyes can occur.
B. The distance between your eyes and the computer screen should be between 18 and 28 inches.	
C. Sit straight by leaning on to the back of the chair.	Pain in backbone.
D. Keep your legs vertically and place your feet on the ground.	Strain in feet.
E. Keep the keyboard and the mouse at the level of your elbow.	Pain in fingers and elbows.

In addition, adjust the brightness and the contrast of the computer screen to suit your eye. Often give a rest to your eye if you are working on your computer for a long period of time.

Although an incorrect posture can cause health issues, the computer is not a device that can be discarded. Therefore, we must use the computer properly to avoid such problems.



Activity 4 - See 2.4 in Workbook.

2.2.4 / Let's dispose Electronic Waste Safely

All computer hardware is considered as electronic waste when they become out of use or when the user discards them.

When these harmful substances enter the human body. They can cause various diseases. They can cause various day-to-day inconveniences and gradually lead to develop various long-term non-curable diseases such as cancers and kidney diseases.

When we dispose these tools improperly to the environment it can cause great damage to the environment as well as to human beings, since they have been manufactured from various harmful metals such as Copper, Aluminum and Lead as well as from plastic.



- **Lead**
Damage the brain, kidneys and disorders in blood circulation
- **Barium**
Brain swelling, muscle weakness, damage to heart
- **Mercury**
Damage to kidneys and nervous system
- **Beryllium**
Lung Cancer

Figure 2.3 - Illnesses that can be caused due to electronic waste



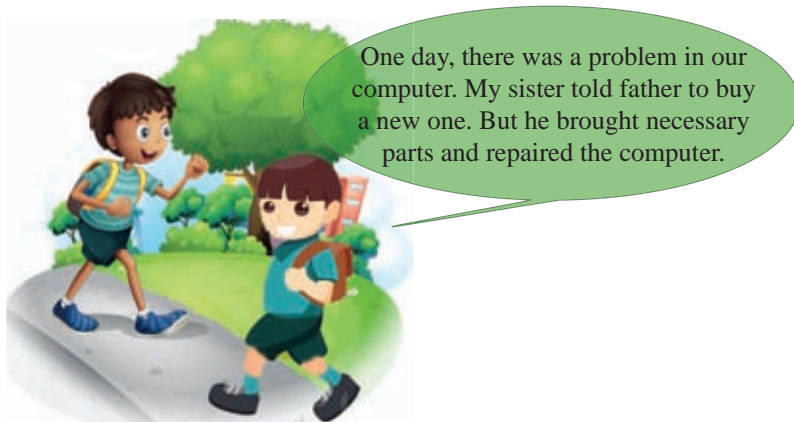
Since, these hazards can cause damages for generations, they must be disposed properly. For that, the 3R system can be used.

Figure 2.4 - 3R Method

1. Reduce

It is not necessary to upgrade to new equipment periodically if we maintain existing equipment properly as to use them for a long time.

This reduces the amount of waste that is released to the environment.



Activity 5 - See 2.5 in the Workbook.

2. Reuse

When purchasing new equipment, consider donating or selling the old equipment if they are in working condition, without discarding them.



Figure 2.5 - Uses of Discarded Computers

If it is not in working condition, then it can be utilized for other purposes.

For instance, as shown in the picture, an empty monitor can be used as a flower pot and a casing of the system unit can be used as a garbage bin.

The amount of waste that is released to the environment is therefore minimal.

3. Recycle

Equipment which are not repairable or reusable, should be recycled without discarding them. It should be handed over to a electronic waste recycling company.



Recycling is a process of transforming the waste to a new product. Waste is separated into small parts and new material is produced through machinery.



Activity 6 - See 2.6 in the Workbook.

2.2.5 Let's use Passwords to protect Computers

Computers should be safeguarded physically as well as logically.





You must have read in fairy tales that a door is opened with a secret word. Also, there is a key to open main door of your house. Can you open the door without a key?



To protect the information stored in the computer from outsiders, a secret word can be set in the computer. That is known as a password.

Then you must enter the password before entering the computer. If the password is incorrect, the computer does not allow you to enter.

Follow the guidelines given below when setting a password

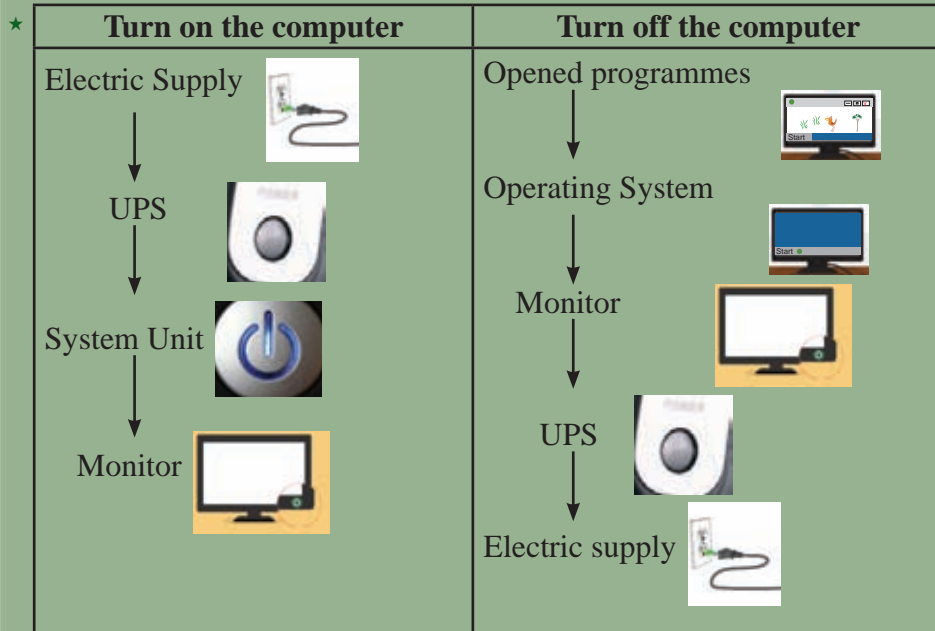
- ☞ The password must be a collection of letters (A-Z), numbers (0 - 9), and symbols (@, #, \$). It should have a minimum of 8 characters including at least one of the above types.
- ☞ The password must not include some simple information like your name, birthday, etc. which can be easily guessed.
- ☞ You can give a password hint.
In case you forget the password, you can give a word or a statement as a hint that will help you to recall it again.
- ☞ By giving an e-mail address, the password can be restored.



Activity 7 - See 2.7 in the Workbook.



Summary



- ★ It's our responsibility to avoid damaging any equipment in the laboratory.
- ★ Passwords can be used to protect the computers.
- ★ Electronic waste should be disposed properly without harming the environment.
- ★ When using the computer, maintain a correct posture to prevent from physical difficulties that occur on a daily basis and from long term health issues.

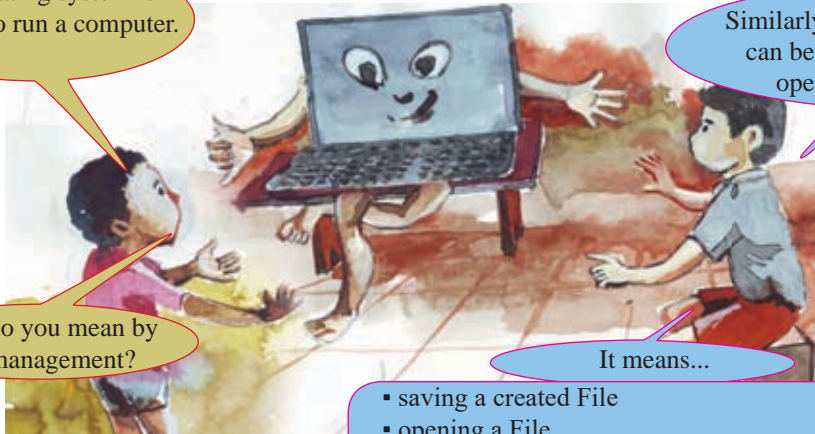


3

Operating System and File Management

An operating system is essential to run a computer.

What do you mean by file management?



Similarly, file management can be done through an operating system.

It means...

- saving a created File
- opening a File
- editing a File
- closing a File
- maximizing, minimizing and resizing a window, etc.

3.1 Operating System

You have learnt in the first chapter that an operating system is a software. That means, it is a computer programme. It establishes a relationship between the user and the hardware. It also helps to manage other software in the computer.



User

↔
Operating System



Computer Software and Hardware

Figure 3.1 - Functions of an Operating System



According to my brother, computer is like a cricket team. Then, the captain is the operating system. Other players are like software and hardware.

The captain leads the players by giving instructions according to the needs of the match. Just like that, software and hardware are managed by the operating system according to the given set of instructions.

Sometimes, captains are changed. Likewise, the operating system also can be changed. Windows, Linux, Ubuntu are some other types of operating systems. It is like changing a captain.

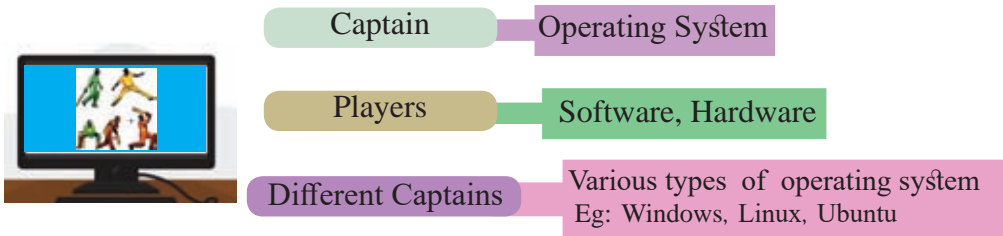


Figure 3.2 - Explaining of Operating System through an Example



Examples for Operating System



Figure 3.3 - Examples for Operating System

3.2 User Interface

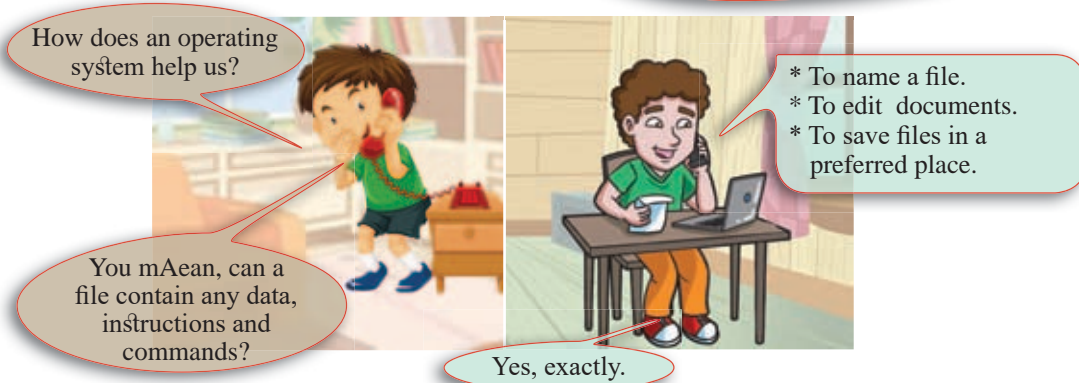


A user interface is given to a user by the operating system to do his tasks. This interface is displayed on the screen when the computer is turned on.



Activity 1 - See 3.1 in the Workbook.

3.2.1 Let's learn about File





Activity 2 - See 3.2 in the Workbook.

Given below are several files which are stored in a computer.

- List of term test marks in a particular class
- A video of the school play presented at the all island drama competition
- The agenda of the sportsmeet
- The National Anthem
- Images of the sportsmeet

These different types of files are shown with unique symbols. A few examples are given below to give you a basic understanding and you will get a broader knowledge about them in higher grades.



A file with text



A file with voice



A file with video

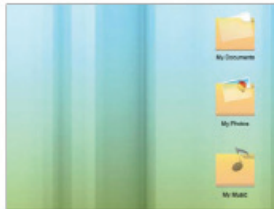
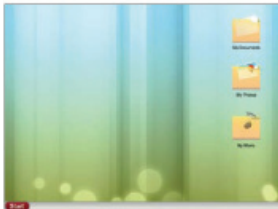
Figure 3.4 - Examples for File Symbols

User Interface

When you open a file or a programme, it is displayed on the user interface.

You can use the icons which are shown on the user interface to open a file, a folder or a programme.

An icon represents a file, a folder or a programme.



File

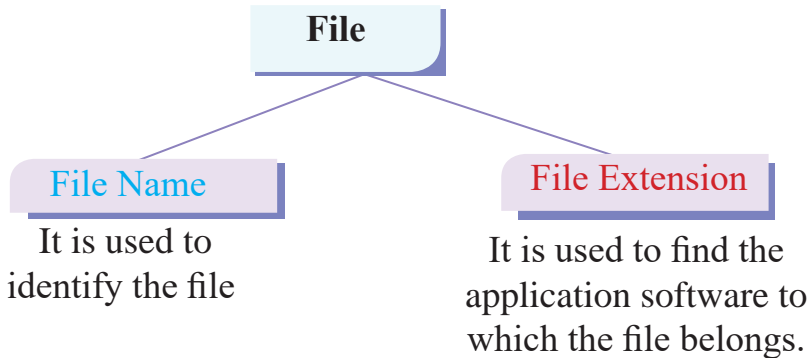


Folder

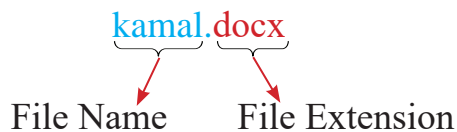


Activity 3 - See 3.3 in the Workbook.

A file contains two parts.



This file is created by a word processing software and it is named as "Kamal".



Let's see how certain tasks are done using a graphic software to learn more about files. A graphic software is used to draw images, charts, shapes, diagrams, figures and building plans.






Some Graphic Software

3.2.2 / Let's Identify the Working Window

The working window is displayed once you open a software.

Let's imagine that you drew an art on a working window. (For that, tools in the menu provided in the opened software should be used).

The working window can be maximized , minimized , resized and closed .

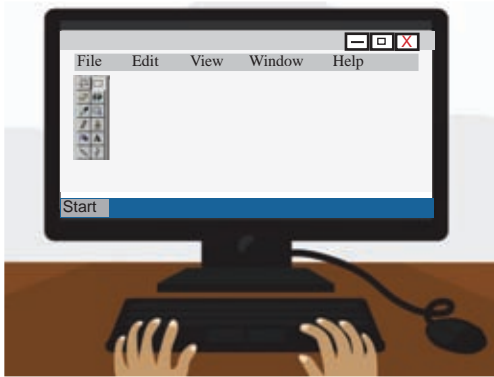


Figure 3.5 - Working Window

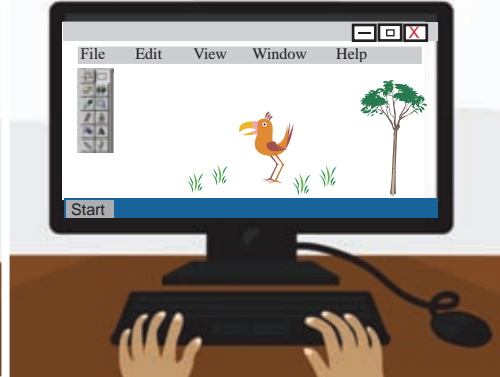


Figure 3.6 - A Working window of an Art

Minimizing the Working Window

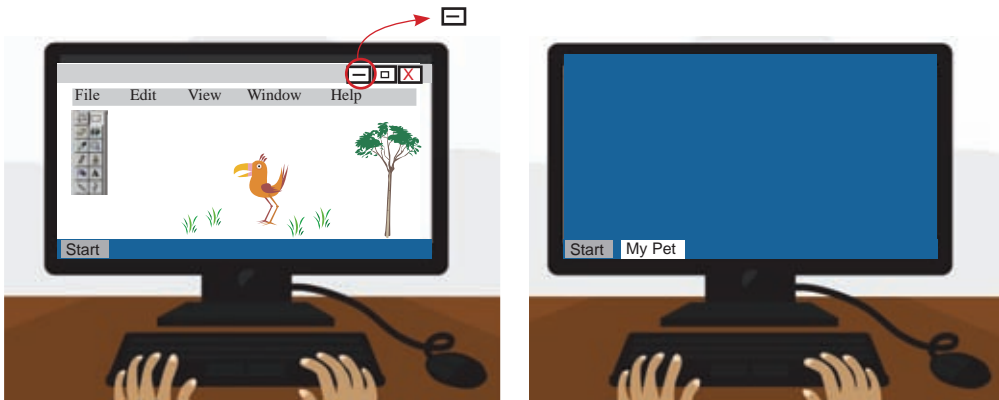


Figure 3.7 - Hiding a Window

Here the window is hidden. The window you opened disappears and is kept on the task bar. It is shown by words or an icon.

Eg:  or 

By clicking on the button shown by the word or the icon, you can restore the working window.

Maximizing the Window

The working window can be enlarged by clicking on the maximize button so that the screen fits into the entire screen.

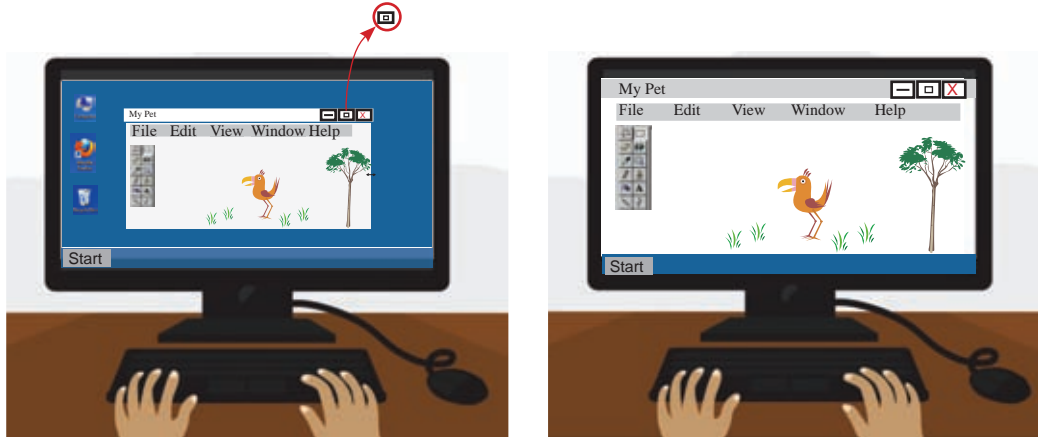


Figure 3.8 - Maximizing a window

It will shrink when you re-click the button again.

Resizing the Window

There is also the opportunity to change the size of the working window that appears on the screen. When the mouse pointer is brought to the edge of the window, arrow shapes are shown. By dragging these arrow shapes you can change the size of the window.

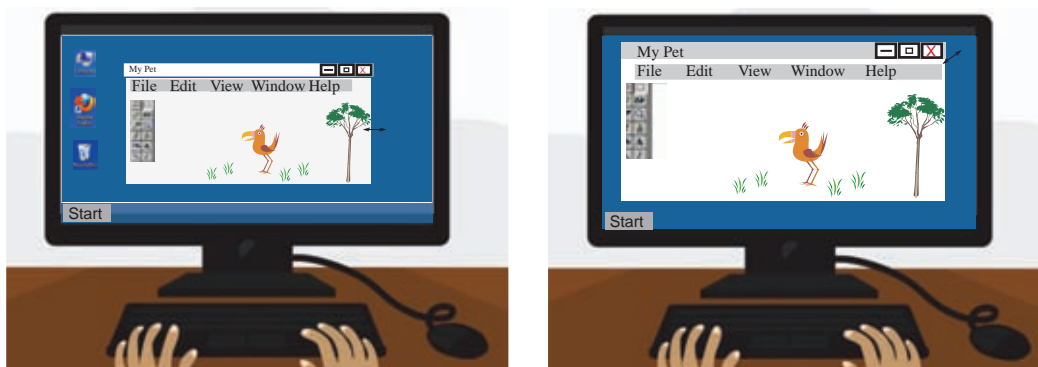


Figure 3.9 - Resizing a Window

Closing the Window

Click the  button on the top right hand corner to close a window.

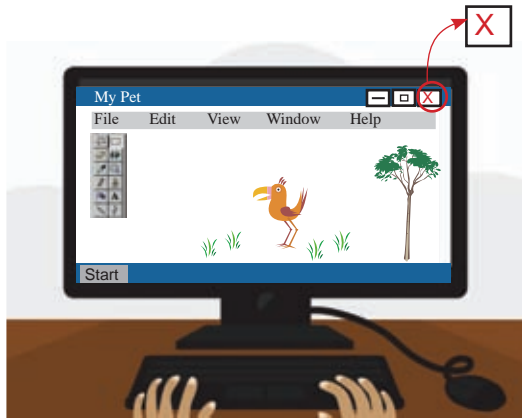



Figure 3.10 - Resizing a Window

When you click the  button, you will see a query window asking whether to save the document or not.

If you want to save the document, to use it later, Select 'Yes' command or if you do not want to save it, click the "No" command.

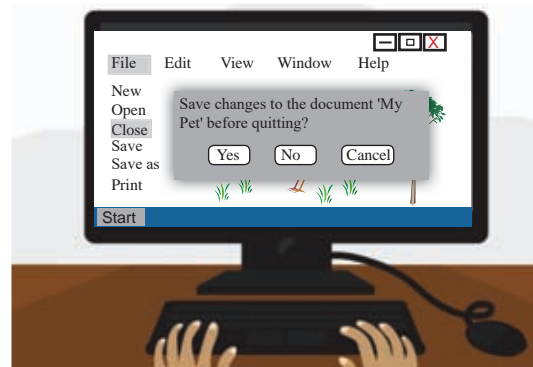
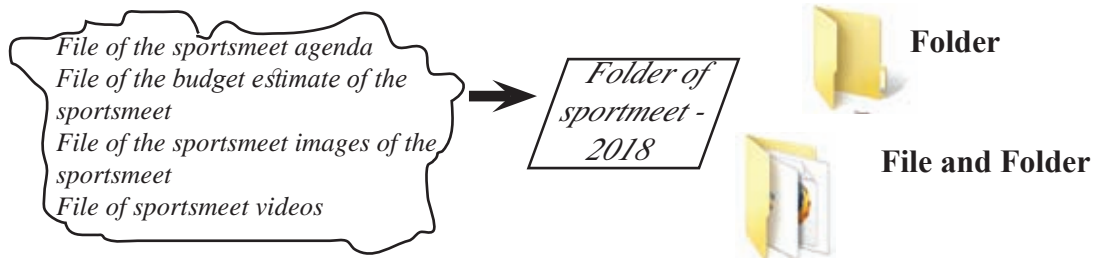


Figure 3.11 - Saving a Document before closing a Window

3.2.3 Let's learn about File Folder

Folders are used to keep files in order.



Following facts about folders and the working window will be useful to you.



Symbols like ; < > ... can be used to name a file or a folder.

Folder and Working Window



A folder contains files like documents, images, etc.



When you double click on a file or a folder, its content is displayed on a working window.



You can use scroll bars to move the document up and down as well as from left to right.

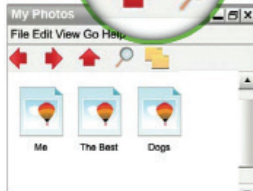
Menu Bar

Title Bar

The name of the file, document or the programme will be shown on the title bar.

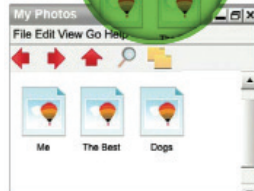


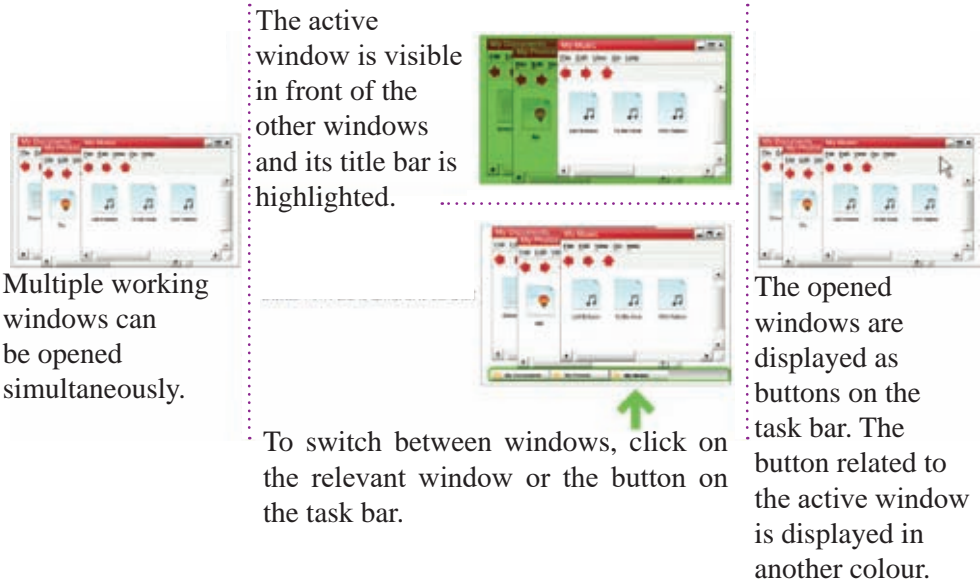
The menu bar contains commands to carry out tasks in a folder, a document or a programme.



Tool Bar

The tool bar contains several commands that are derived from the menu bar.





Create a File

Consider the simple art drawn above. When you close the window, if you give a command to save it, it creates a file and saves the document.

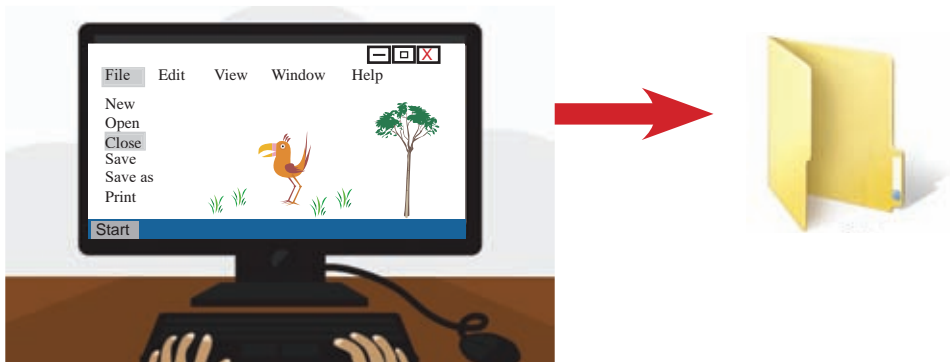


Figure 3.12 - Creating a File



Activity 4 - See 3.4 in the Workbook.

Saving a File

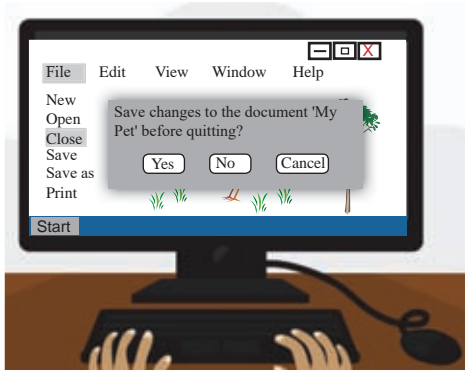


Figure 3.13 - Saving a File

Created files should be saved for reuse. These can be stored in a folder for convenience and order. Here you can use the 'Save' or 'Save as' command to save the file.

When saving the file for the first time, despite the selected command, the "Save as" command window will be opened.

Here, the operating system suggests a name for the file. The user can change it and give a suitable name. Also, determining the location of the file to be stored can be done in the same manner.

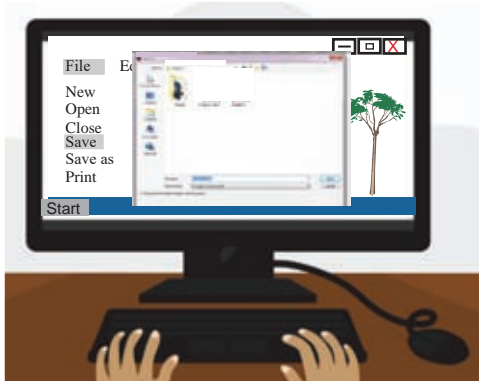


Figure 3.14 - Selecting a Location and giving a Name to save a File

When giving a name to a file, give a name that hints the content of the file. It makes it easier to find the file easily.



It is not allowed to save two files with the same file name which are created by the same software in the same folder. The operation system gives an identity to the file by doing that.

It's also difficult for you to identify several friends who have the same name. Similarly, the same problem affects the operating system. Therefore, it does not allow multiple files to be saved under the same file name in the same folder.

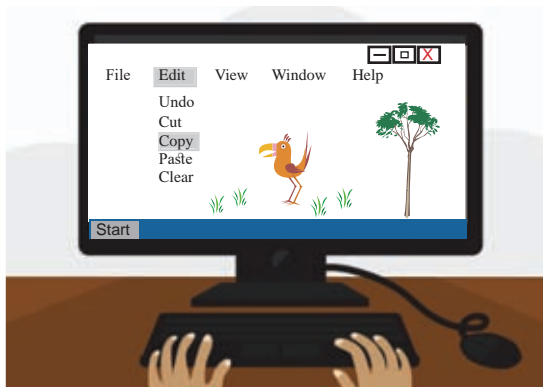
Open a File



To open a saved file, find the file location and the name. Then, click on it.

Figure 3.15 - Opening a File

Edit a File



You will be able to edit the saved file after opening it.

Here, it should be saved once you edit it. For that, 'Save' command can be used. If you want to save the file in a different location, then use the 'Save as' command.

Figure 3.16 - Editing a File



Activity 5 - See 3.5 in the Workbook.



Summary

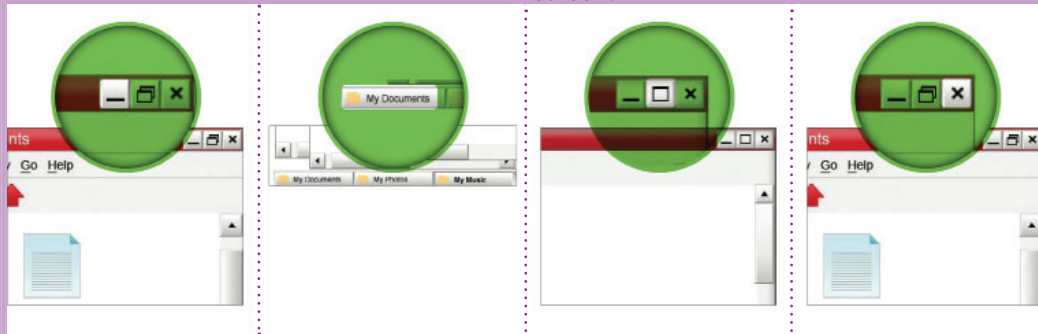
- ★ The operating system is a bridge that connects the user and the computer.
- ★ File manipulation is a major function of the operating system.
- ★ Creating a file, editing and closing a file can be done through an operating system. In addition, it is possible to maximize, minimize and resize a window.
- ★ A file is a collection of data and information whereas a folder is a collection of files.
- ★ A file name contains a name and an extension whereas a folder contains only a name.

To minimize the screen click the minimize button on the top right hand corner of the screen.

To restore the window, click the relevant button on the task bar.

Click the maximize button to enlarge the screen and to fit the window to the entire screen.

To close the window, click the close button.





4

Using Mouse and Keyboard to use Application Software

There's a computer. to listen a song, to type a letter, to draw a picture, what else do you need?



4.1 Application Software

Teacher, I would like to draw a picture.

Teacher, I would like to type a letter.



Teacher, I would like to listen to a song.

Yes, children, we can do all those things. There are separate tools (programmes) fo that. We should know about the keyboard and the mouse to do those things.

4.1 Examples for Tasks that can be done by a Computer

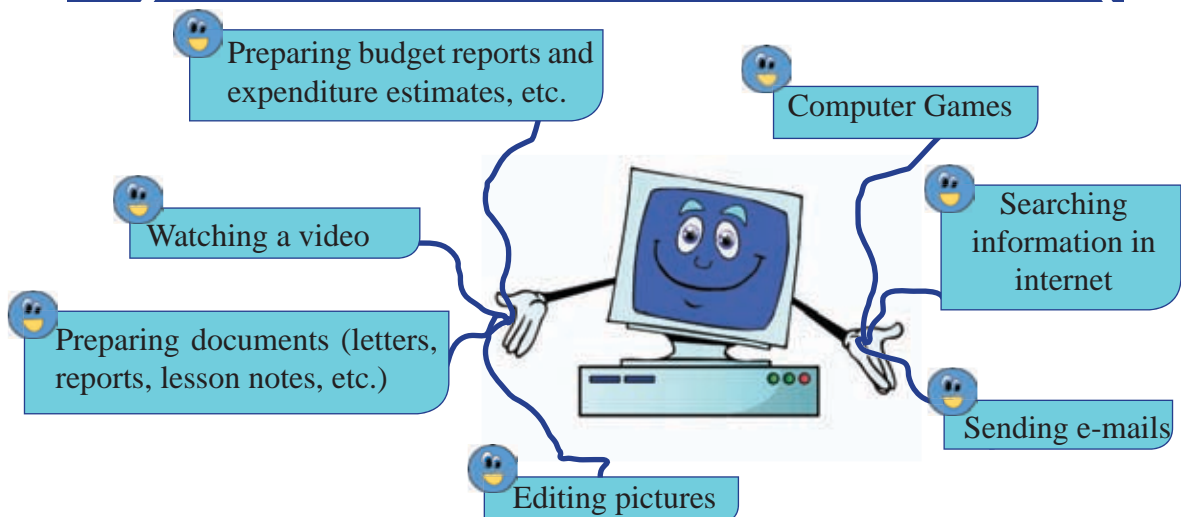


Figure 4.1 - Several Tasks that can be done through a Computer

Various programmes which execute such requirements of the user are called application software.

4.1.1 Types of Application Software

Application software is mainly divided into two parts. They are;

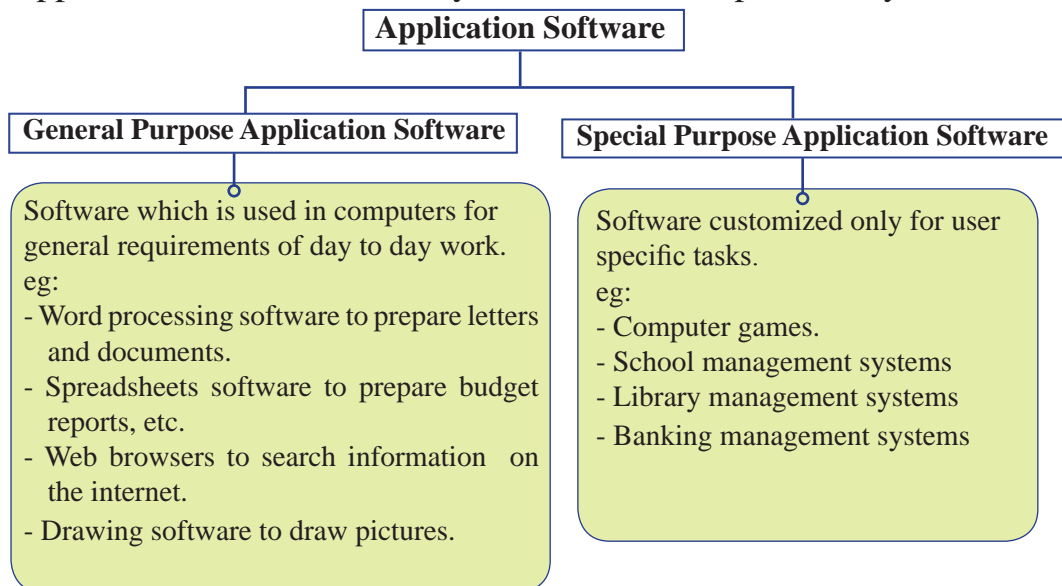
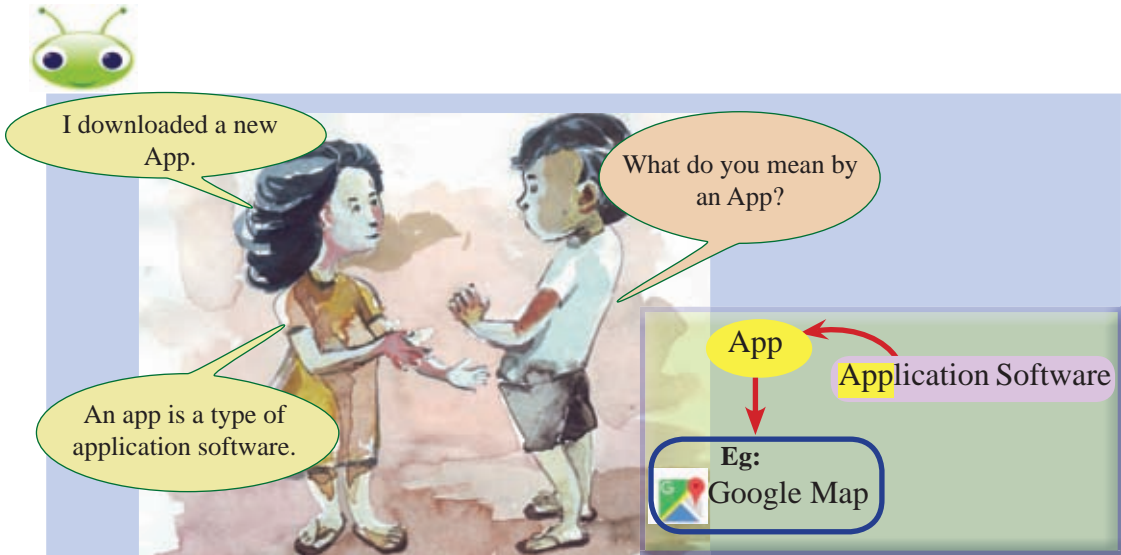


Figure 4.2 - Categorizing Application Software

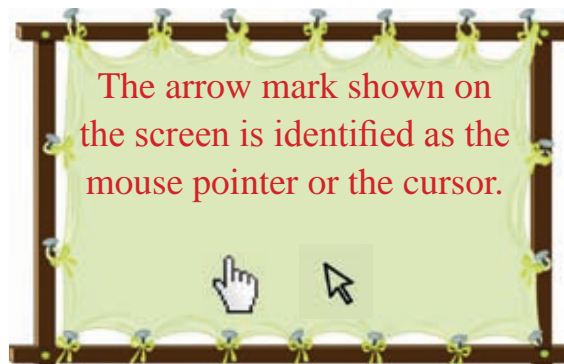


4.2 Basic Tools needed to use Application Software

When using application software, basically the keyboard and the mouse are used. Therefore, first of all, you need to get a clear understanding of the mouse and the keyboard to accomplish various tasks using application software. You should properly train yourself to use them.

4.2.1 Using the Mouse

Controlling the pointer on the screen can be done by moving the mouse. Also, opening a file, folder, menu and selecting commands can be done by clicking the buttons on the mouse.





Activity 1 - See 4.1 in the Workbook.

Main Parts of a Mouse

Normally, the mouse has a left and a right button and a small wheel in the middle.

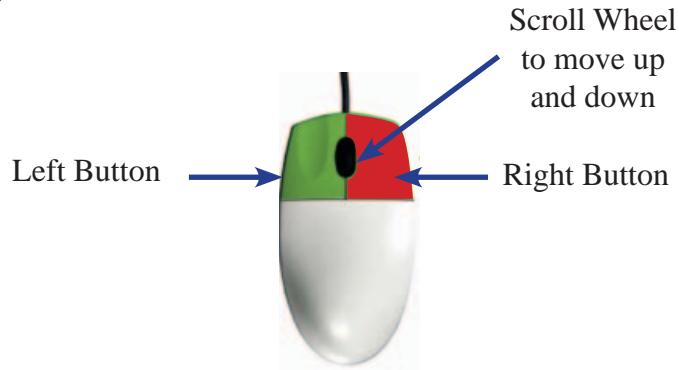


Figure 4.3 - Main Parts of a Mouse



Activity 2 - See 4.2 in the Workbook.

Let's identify several types of mouse that are in use.



Mouse



Wireless Mouse



Touch Pad

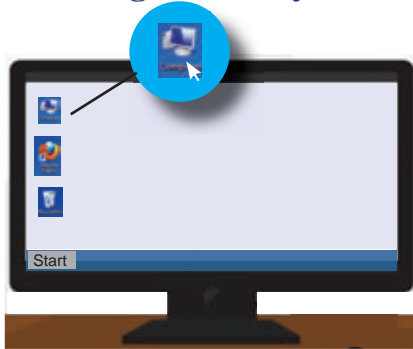
Figure 4.4 - Examples for Mouse Types

Functions of the Mouse

Many tasks can be performed on the computer screen with a mouse. They can be divided into following three categories.

- Eg:
- Selecting necessary items
 - Opening necessary items
 - Moving necessary items

Selecting necessary items



To do this, bring the cursor on to the item and click the left button once. Then the item is highlighted.

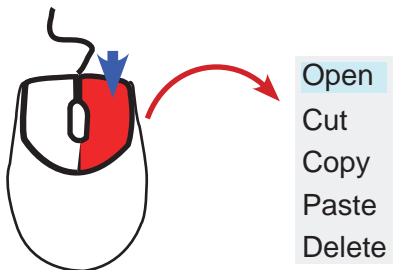
Opening necessary items

Method I



By double-clicking the left button, you can open the application or file that represents a corresponding icon.

Method II



Once you click the right button on the icon, select the 'open' command from the sub menu.

Moving necessary items



Click the left button, then drag and drop it.



In addition, a mouse scroll is used to move the working window up and down. Here, a wheel in the mouse is rotated to move the page up and down.

Let's use the Mouse Properly



Figure 4.5 - Using the mouse properly

When we use the mouse, we need to learn to hold it properly. Holding the mouse improperly can cause pain and difficulty in our hands.



Figure 4.6 - Using the mouse improperly

4.2.2 Keyboard

There are various keyboards such as wired keyboards, wireless keyboards and touch keyboards.



Figure 4.7 - Keyboard



Figure 4.8 - Wireless Keyboard

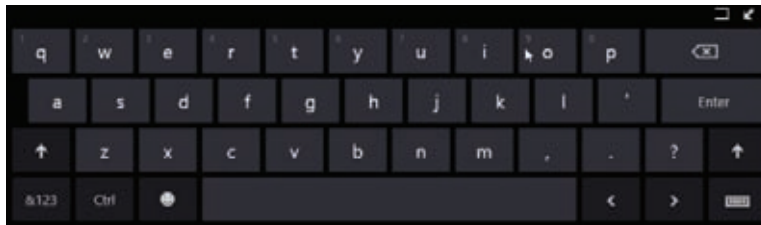


Figure 4.9 - Touch Keyboard

Types of Keys in the Keyboard and Their Functions

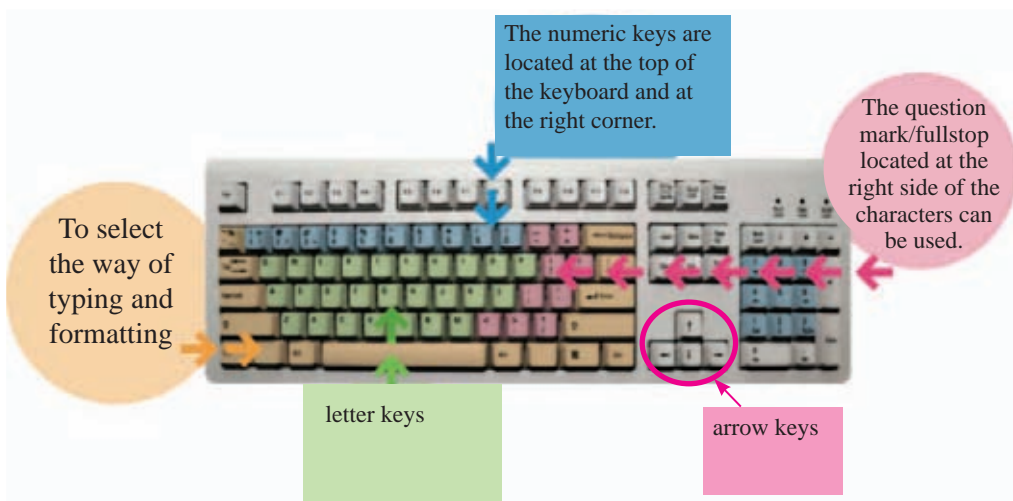


Figure 4.10 - Parts of the Keyboard

There is a vertical line that appears and disappears when you are about to start typing on a document or a box. It is the cursor.



Letter keys are used to type letters. Letter-keys are not located in the order of the English alphabet. The manner in which the letter keys are located on the keyboard is known as 'QWERTY' layout.

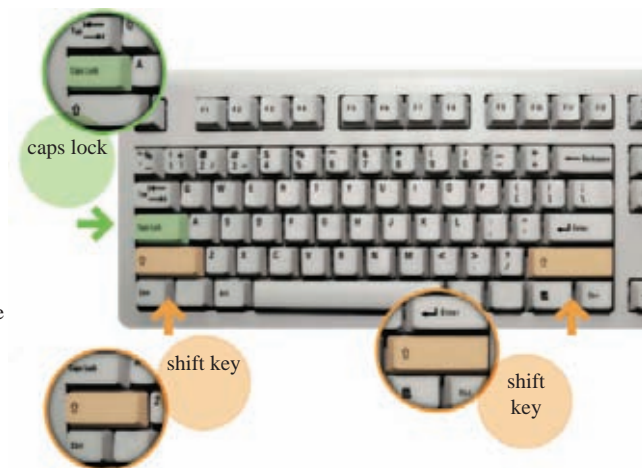


The cursor shows the location where the typing starts.

Use the Caps Lock key

After pressing the Caps lock key once, you can type in capital letters. When you need to type normally, press the Caps lock key again.

- Pressing Caps Lock key once
A, C, D
- When you press Caps Lock again a, c, d



Use the Shift key

There are two Shift keys on the right and left hand on a keyboard. When letter keys are pressed while pressing on the shift key, letters are typed in capital letters. Similarly, while pressing the Shift key, if you press other keys, the symbol at the top of the key is typed.

 +  → A

 +  → ?



Activity 3 - See 4.3 in Workbook.

Space bar - It is used to insert space between words. By pressing this key once, you can get one space and by pressing it twice, you can get two spaces. Likewise, you can press it several times to get the needed space.

Eg:- Pressing once. Thank You
Pressing twice. Thank You

Tab key - It is used to insert a large space between words. If you press it once, one space is kept and by pressing it twice, two spaces can be kept.

Eg:- Pressing once. Thank You
Pressing twice. Thank You

Enter key - This key is used to take the cursor one line below.

Eg:- Pressing once Thank
 You

Arrow keys - These keys are used to move the cursor up and down and from right or left.

Backspace key - By pressing this once, one letter, space or a number on the left side is deleted.

Let's use the Keyboard Correctly

When we fail to use the keyboard correctly, it will cause inconvenience and pain in fingers as well as in the wrists.

The way you should keep your fingers on the keyboard is shown below.



Figure 4.11 - The method of keeping hands on the keyboard correctly

4.3 Let's learn how to use the Application Software

It is intended to provide an understanding about some of the application software and we look forward to discuss audio and video software in the forthcoming chapters.

Graphic Software

At first, art was drawn manually by man.

Later, software was produced to draw pictures using the computer.



Figure 4.12 - A hand drawn painting



Figure 4.13 - An art drawn using a computer



Activity 4 - See 4.4 in the Workbook.

Different software is used to create graphics and to draw arts. This software is known as graphic software.



Figure 4.14 - Examples for Grapic Software



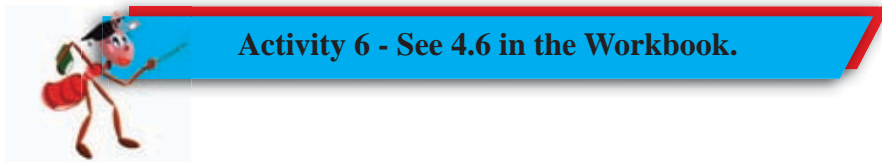
Activity 5 - See 4.5 in the Workbook.

Word Processing Software

The software we use to create and store documents that are needed in everyday life is called word processing software.



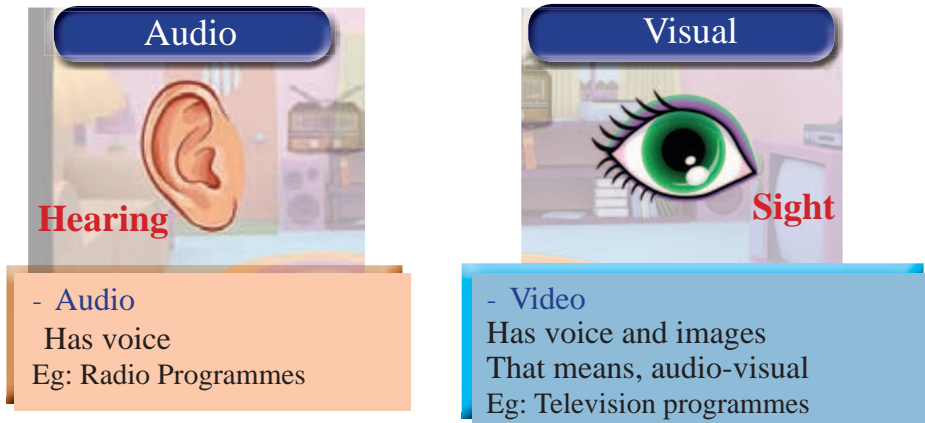
Figure 4.15 - Examples for Word Processing Software



Audio and Video Editing Software



Software has been developed to edit audio and video recordings. Many tasks can be done using this software.



Among several software which is designed to create and edit audio-video material, software created to edit audio recordings is known as audio editing software and software created to edit video recordings is known as video editing software.

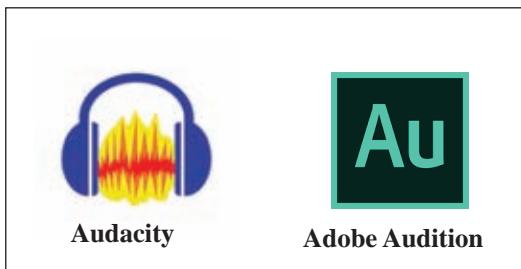


Figure 4.16 - Examples for Audio Editing Software

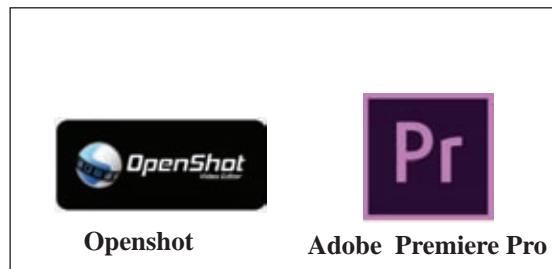
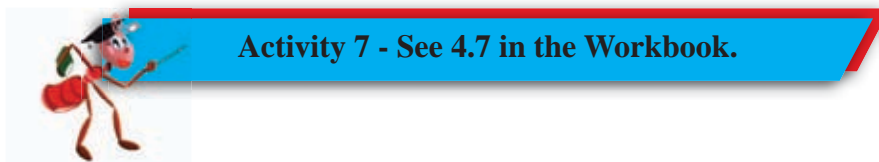
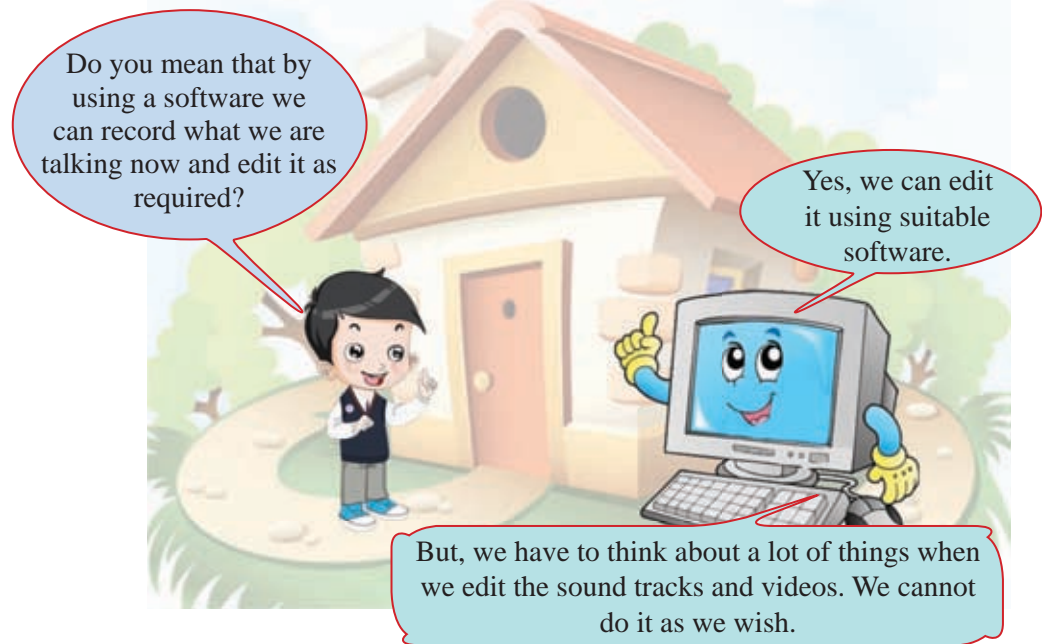


Figure 4.17 - Examples for Video Editing Software



Creating Audio-Video Files



It is very important to comply with the ethics in editing audio and video recordings.

When we record voices and images of others, their permission must be obtained. (In case of small children, the permission of their parents or school must be obtained.)

When editing recordings of voices and images of others, they should not be done in a manner as to make them uncomfortable.

Editing should not be done in a manner as to give a false idea or a message.

You should not use the knowledge of editing software for fraudulent purposes.

If edited audio or video files are made available, it must be done by protecting the identity of you or relevant people.

The complex block contains five text boxes with rounded corners, each preceded by a small orange fruit icon. The text boxes are arranged in a grid-like pattern. To the right of the text boxes is an illustration of a colorful parrot (red, blue, and yellow) perched on a green branch with leaves. The background is light blue.

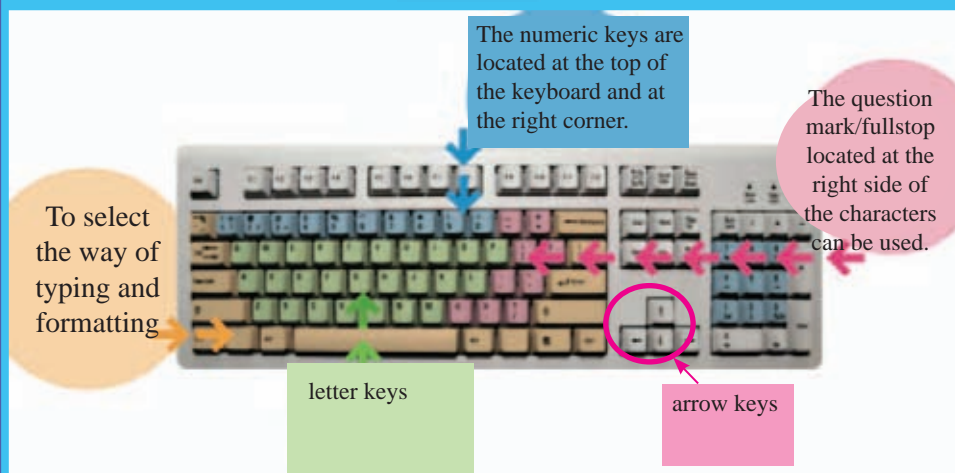
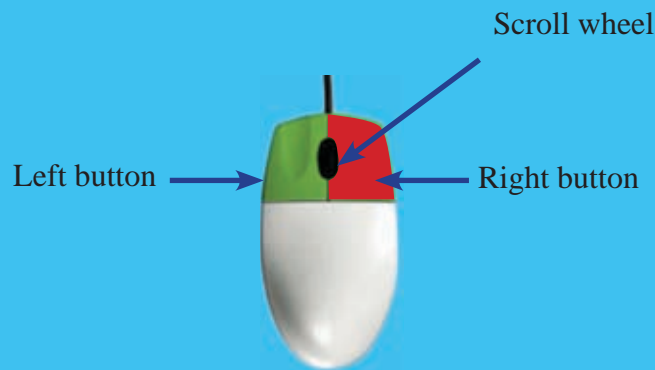


Activity 8 - See 4.8 in the Workbook.



Summary

- ★ Software which is designed to fulfil user requirements is called application software.
Eg: graphics software, word processing software, audio-video software
- ★ Knowledge of the keyboard and the mouse is important to use application software.
- ★ Right button, left button and scroll wheel are the main parts of a mouse.





5

Algorithm and Flow Charts

5.1 / Process of Solving Practical Problems

Imagine that a group of relatives have arrived when you were alone in the house. You need to serve them some tea. Here, you should prepare a cup of tea by following different steps.

On another occasion, you will have to make a fruit salad for a dessert or make a birthday cake. On all these occasions, you need to solve problems. Compare it with calculating the area of a rectangle during your mathematics lesson.

When we have a certain aim, we do certain activities to achieve it. In our day to day life, we often solve problems.

5.1.1 / Problem Solving

The problem needs to be analyzed well before solving it. Then you can get a good understanding of how to solve the problem. The process of problem solving has an input, an outcome and a process.

Input	- Things to be included to solve the problem.
Process	- Guidelines to be followed to solve the problem.
Output	- The result you get after solving the problem.

Thus, you will understand that processing content according to a recipe is known as solving problems.

Example: 1

The input, process and output of preparing a fruit salad is as follows.

Input - a variety of fruits

Process - washing fruits, cutting fruit, mixing

Output - Fruit salad

Example: 2

The input, process and output of finding the area of a rectangle are as follows.

Input - the length and the width of the rectangle

Process - length x width

Output - area of the rectangle



Activity 01 - See 5.1 in the Workbook.

5.2 Algorithm

If you are able to prepare a cup of tea, tie the shoe lace correctly, or put on the school uniform correctly, then you know how to use an algorithm.



Figure 5.1 - Some instances in daily life where we use algorithms

5.2.1 What is an algorithm?

Algorithm

A method that includes all the steps of solving a problem in order is known as an algorithm.

Example 1

Steps to create a fruits salad are as follows.

Step 01



Finding various kinds of fruits

Step 02



Washing all the fruits well

Step 03



Cutting fruits into small pieces

Step 04



Putting the pieces of fruit into a bowl

Step 05



Add sugar and mix

Step 06



Serve the fruit salad in bowls

It's important to write the steps sequentially in an algorithm. Think about what will happen if the sixth step is done as the second step. All the fruits mixed with sugar should be washed again.

Therefore, it is important to write the steps of an algorithm sequentially.

5.2.2 Writing Algorithm

When writing an algorithm in a standard way, every algorithm must have a start and an end. Therefore, it is compulsory to include an initial step and a final step in writing an algorithm in addition to the normal steps.

Example 1

The algorithm for making a chocolate cake

Step 01	Start
Step 02	Clean and wash the baking tray and other bowls
Step 03	Dissolve chocolate
Step 04	Mix wheat flour and baking powder
Step 05	Beat butter until it gets creamy. While beating, add sugar little by little
Step 06	Add the eggs one by one to the sugar and butter mixture and beat it. Then add the flour mixture little by little.
Step 07	Add the dissolved chocolate
Step 08	Add milk
Step 09	Put the mixture into the baking tray and bake it
Step 10	Let it cool after baking
Step 11	Decorate as you wish and serve it
Step 12	End

Example 2

Algorithm to find the area of a rectangle.

Steps 01	Start
Steps 02	Get the length of the rectangle
Steps 03	Get the width of the rectangle
Steps 04	Area = length x width
Steps 05	Get the area of the rectangle
Steps 06	End









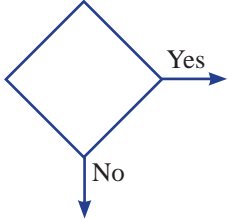
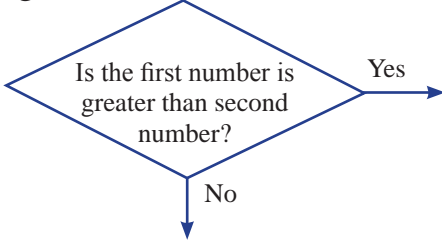

Activity 02 - See 5.2 in the Workbook.

5.3 / Flow Chart

A flow chart is a graphical representation of the algorithmic steps.

Here, standard symbols are used to show each action.

Symbol	Usage
	Used to indicate the start and the end. Eg: 
	Used to indicate the input and the output. Eg:  

	<p>Used to show an action/a process</p> <p>Eg: Adding eggs one by one to the mixture of sugar and butter and beating it.</p> <p>Area = length x width</p>
	<p>Used to indicate an instance of decision making.</p> 
	<p>It is used to indicate the direction of data flow.</p>

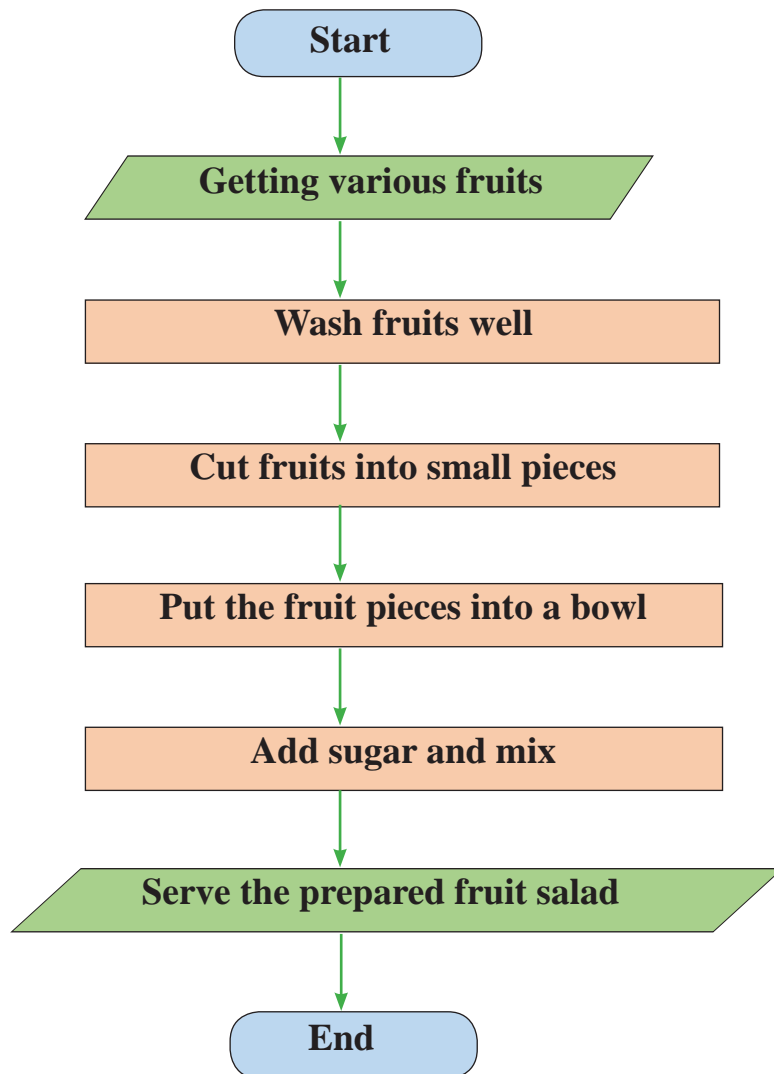


Activity 03 - See 5.3 in the Workbook.

Example 01

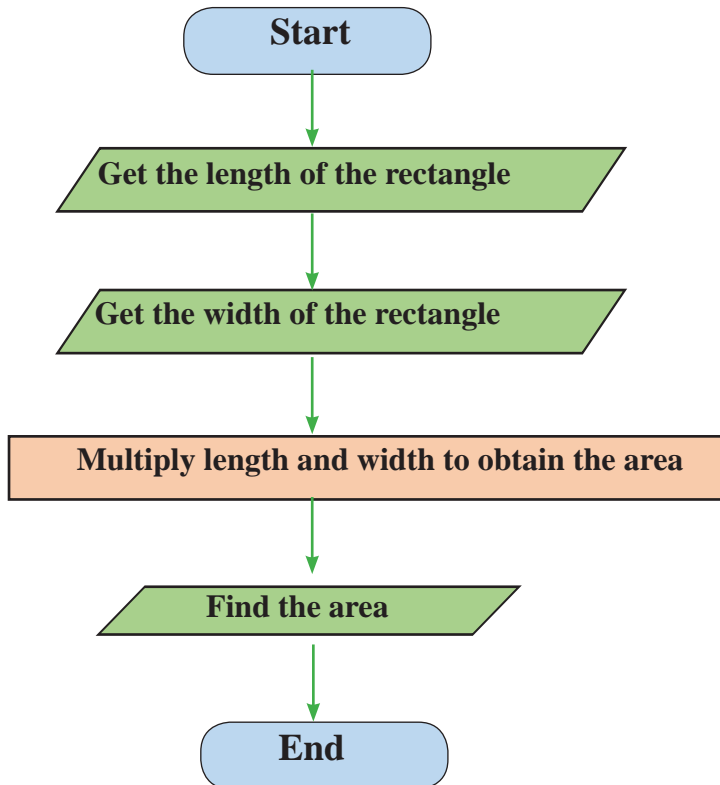
Drawing the flow chart for making a fruit salad using the above symbols is given below.

Here the symbols related to start, end input out and process are used.



Example 02

The flow chart for finding the area of a rectangle is given below.





Activity 04 - See 5.4 in the Workbook.




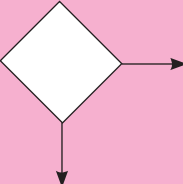
Summary

- ★ Before the problem is resolved, it needs to be analyzed well.
- ★ There is an input, output and a process when solving a problem.
- ★ Things we feed to solve the problem are identified as the 'input', the steps to be followed when solving a problem are identified as the 'process', and the result we get after solving the problem is named as the 'output'.
- ★ A method set out in order including all the steps needed to solve any problem is identified as an algorithm.
- ★ A standard algorithm must have a start and an end.
- ★ A flow chart is a graphical representation of the algorithmic steps. Specific symbols are used to indicate each action.

★  shape is used to indicate the start and the end.

★  shape is used to indicate the input and the output.

★  shape is used to indicate the process.

★  shape is used to indicate the decision taken.



6 Using the Internet for collecting Information and Communication

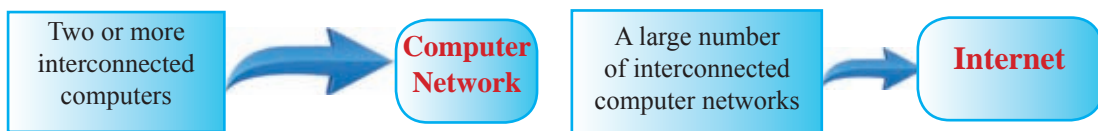
6.1 Let's learn about the Internet

Brother, our teacher said that we can find information on sea creatures from the internet. What do you mean by the internet?



The internet is a large collection of computer networks.

The internet is made up of a large number of computers and computer networks around the world.



There are a wide range of services available on the internet reading such as reading newspapers, bill payments, online shopping, exchange of letters and watching television.

6.2 Accessing Internet



<http://www.e-thaksalawa.moe.gov.lk>



Figure 6.1 - Model of a Web Page

6.2.1 Web Browser

You open a website or a web page in a web browser. The software used to open websites and webpages on the internet is the web browser.

Eg:



Google Chrome



Internet Explorer



Mozilla Firefox

6.2.2 Use of Web Browsers

To use a web browser, the computer should be connected to the internet.



Normally a web browser can be opened via a shortcut on the desktop.



The address bar can be seen on the top of the web browser's interface.

Address bar



If you want to open a website, you need to enter an address in the address bar.

Bring the cursor on to the address bar and click on it. Then enter the address directly. Then press the enter key.

Eg: Accessing the website of the Ministry of Education

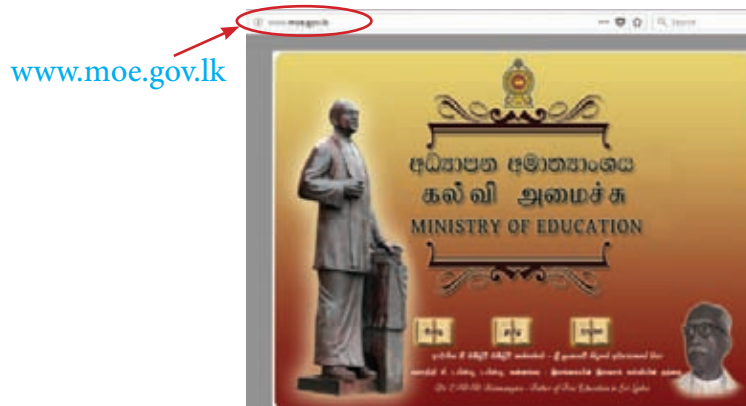


Figure 6.2 - Website of the Ministry of Education

If you have typed the address previously, it will be displayed. Hence, bring the cursor and click on it.



Figure 6.3 - Address Bar

There is a toolbar in the web browser. These toolbars can be used to change websites and update web pages.

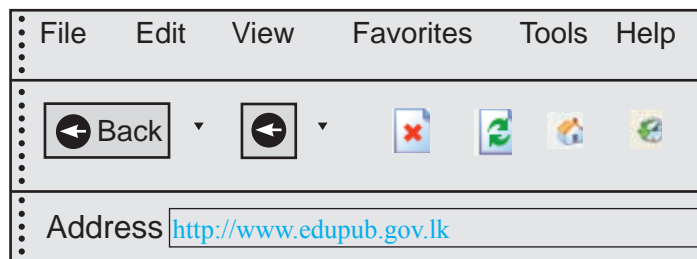


Figure 6.4 - Web Address of the Educational Publications Department

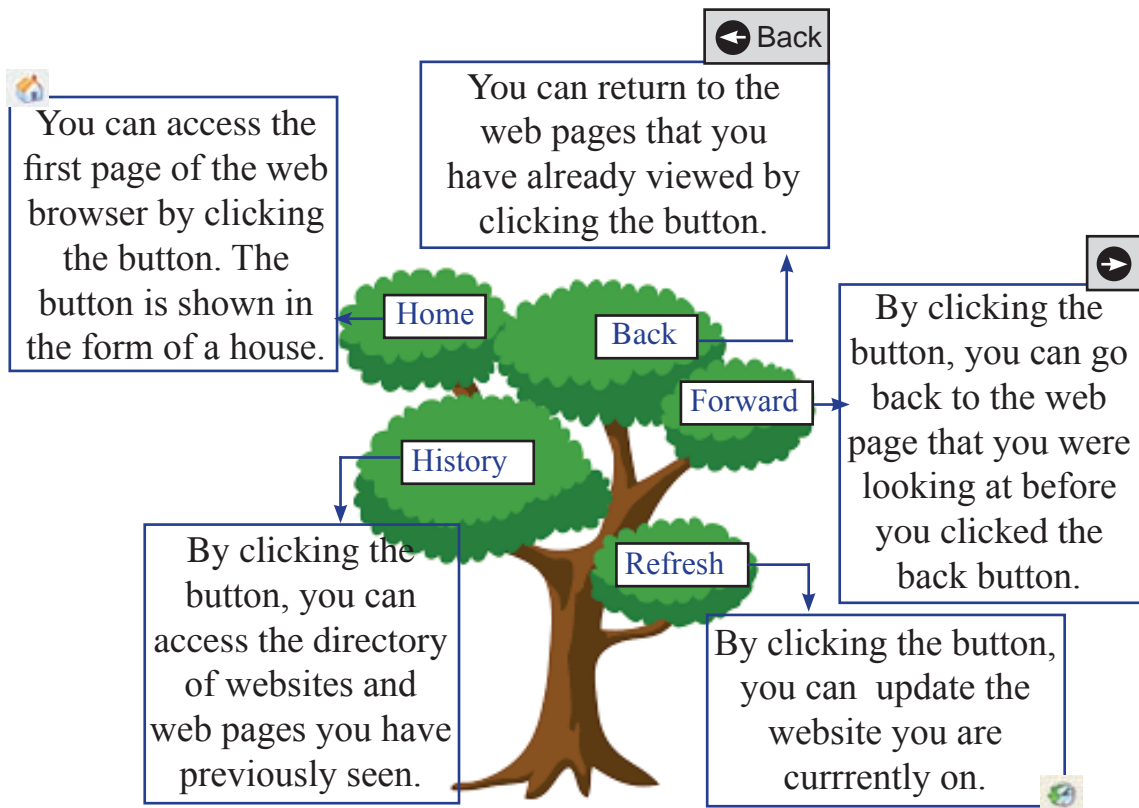
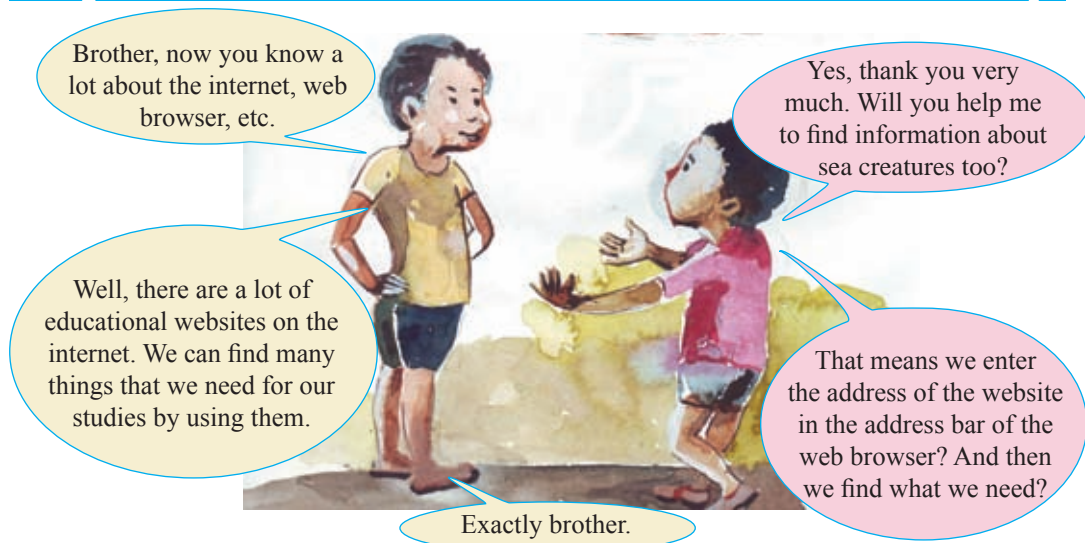


Figure 6.5 - Some Buttons in a Web Browser

6.3 Obtaining Information from Educational Websites



There are a lot of educational websites on the internet and we can get many information regarding our studies. In order to enter a website the address of the web site should be entered in the address bar of the web browser.

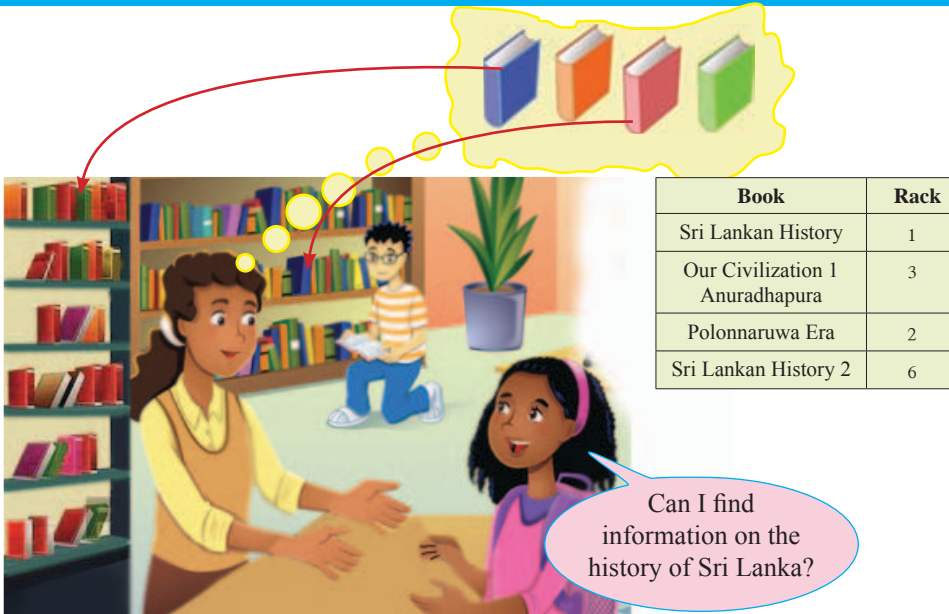
Example : www.bbc.com/bitesize

6.4 / Let's learn about Search Engines



A search engines is a software that can be used to find information on the internet. This gives you a list of websites related to the facts that we are searching for.

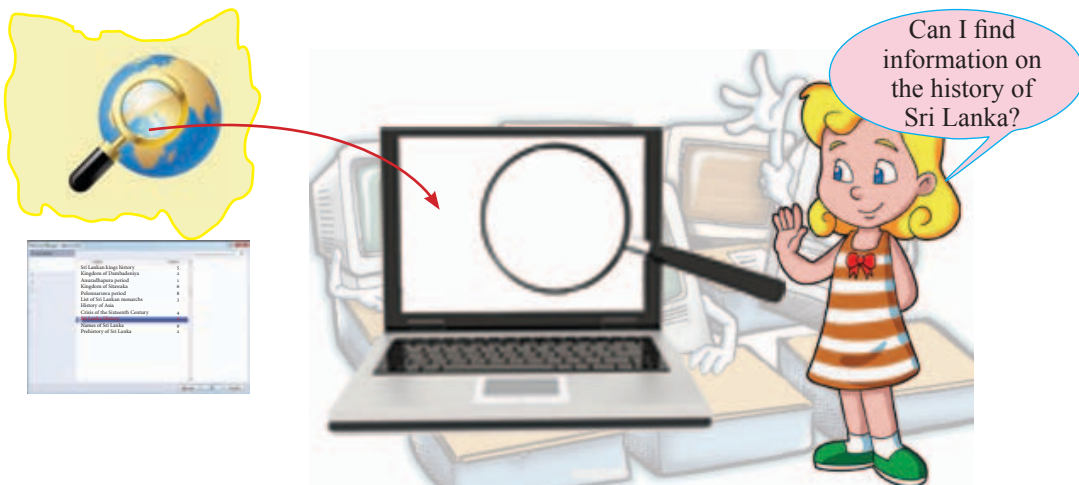
Use of Search Engines



Book	Rack
Sri Lankan History	1
Our Civilization 1 Anuradhapura	3
Polonnaruwa Era	2
Sri Lankan History 2	6

Can I find information on the history of Sri Lanka?

To assist Yalini to find information, the librarian should know the books about the history of Sri Lanka and know the location of books.
In the end, a list of names of the books and the place where the books are placed will be provided.



Can I find information on the history of Sri Lanka?

To help Anne to find the information, the search engine should know about websites or web pages that contain information on the history of Sri Lanka and they should also know the location of websites or webpages.
In the end, a list of names and addresses of websites will be available to help you find relevant websites or web addresses.

There are a large number of websites and web pages on the internet. Search engines can search anything such as recipes, news, history, science, education, etc. on those sites.

Search engines are needed to find what is most productive on the internet.

A search engine efficiently scans thousands of websites and web pages and process them.

- Examples for search engines;
 - Google - www.google.com
 - Yahoo - www.yahoo.com
 - Bing - www.bing.com



Figure 6.6 - Search Engines

Opening and Using Search Engines

To use search engines, you need to open the web browser that is installed in a computer.

😊 The address of the search engine must be entered in the address bar.

😊 You can enter the search engine by clicking the key on the address bar or by pressing key on the keyboard.

😊 There is a search box or a search field in a search engine.

😊 Enter the key words relevant to the information and click the search button.

Your search results are shown as a list of websites and links. It will show a list of the most popular or the most suitable websites or links on the top. From that, you need to select the relevant site and click on the link to view it.

The keywords are the simplest and straightforward terms of what you are looking for.

For example,

Think that you need to search about the history of Sri Lanka. You can use

'History Sri Lanka' as a key word.

Tips for making Search Results more effective

The following short tips can be used to make your search more effective:

- Use keywords. Do not use complete sentences/questions.
Eg: 'I need the history of Sri Lanka'.

You should type 'Sri Lankan History' or 'History Sri Lanka' instead of 'I need the History of Sri Lanka'.

- If you cannot find what you require, try using a different word or a different expression.



Figure 6.7 - Search Information using a Search Engine



Activity 1 - See 6.1 in Workbook

In some searches, it will show hundreds of web pages irrelevant to your search. Be careful when selecting your search terms to avoid that. Your search engine will give an accurate result when your word is more appropriate.

1. Use inverted commas (" ") for a clause with several words.



2. Removing unnecessary words

Do not use words that are not relevant to your search. Do not use words like " how, and, in, to, as". Use the names of people, places or things you want to find.



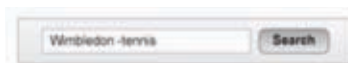
3. When you want to use more than one main word. Connect the words with '+'. For example, when you need to see the beautiful places in Kandy,

It is better to use



- 4) To remove unnecessary facts

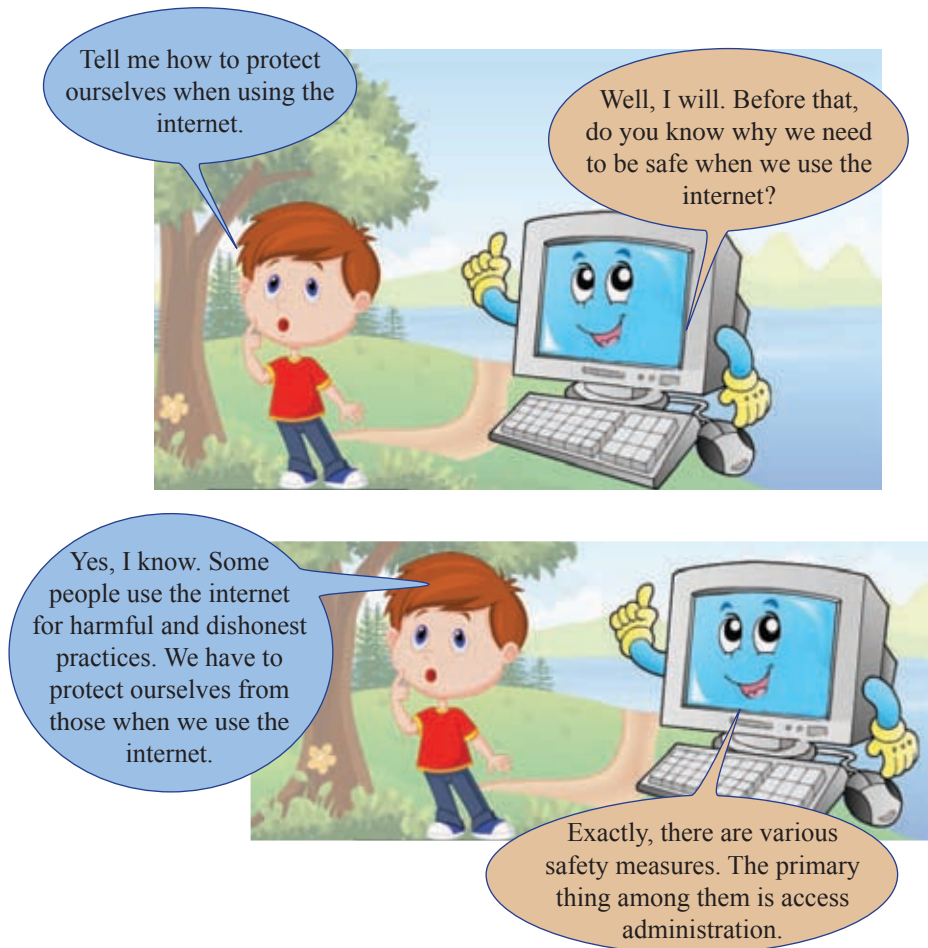
Use '-' in front of the unwanted word. For example, when you are searching for information about Wimbledon, it would show information on tennis too. So to remove details about tennis, use;



5. When looking for an image about something, select the 'image' command of the search engine to search what you need.



6.5 / Let's use the Internet Safely



The access administration is following different measures to access the internet safely and with a control. When we are using the internet, we interconnect with various computer networks and various websites around the world. Thus, it can influence our computer in many ways.

6.5.2 Use E-mail Safely

Individuals can send e-mail messages in order to access personal information, such as bank account details. We can also receive e-mails containing advertisements that are sent to thousands of people for commercial purposes.

Here are some steps you can follow to safeguard e-mails.

- Be careful when opening e-mails sent by unknown people.
- Avoid replying those e-mails and prevent from accessing links in them.
- Avoid providing information to any institution who request them through e-mails without inquiring about them.

6.5.3 Doing Safe Online Transactions

One of the important uses of the internet is that we can do online transactions and purchase goods.

But, you should be very careful. In order to purchase goods, you must use most reliable websites and you must do payments through safe methods.



It's important to follow the directions and instructions of those who have good knowledge about using the internet. At present, there is an increase in the fraudulent acts on the internet.

Be sure to get the help and guidance of your teachers, parents, or adults whenever you access the internet. It will make your browsing time more productive, satisfying and safe.



Activity 2 - See 6.2 in the Workbook.



Summary

- ★ The internet is a collection of a large number of computer networks.
- ★ There are a number of internet services that can be used to exchange information and web is one of the services.
- ★ Documents, pictures, videos and sounds can be exchanged through web and they are stored as webpages.
A website is created using web pages. A web address is used to identify a website.

- ★ The software used to look up web pages is the web browser.
- ★ Search engines are used to find information.
- ★ The service used to send messages via the internet is e-mail.
- ★ You can use the internet to make transactions and use secure web addresses only.
- ★ Differences between a web browser and a search engine:

Web Browser	Search Engine
It is a software used to access websites through the internet and view the web pages.	It is a programme used to find information needed from a vast collection of information on the internet. This requires a web browser.
The web address is used to access the website.	The words or phrases are used to find information.
Related website is opened.	Provides a list of relevant websites. You must select the suitable website to find the relevant information.

English-Sinhala-Tamil Glossary

No	English	Sinhala	Tamil
1.	abstract model	විදුක්ත ආකෘතිය	கருத்தியல் மாதிரி
2.	acceptance testing	ප්‍රතිග්‍රහණ පරීක්ෂාව	ஏற்புச் சோதனை
3.	access privilege	ප්‍රවේශවීමේ වරප්‍රසාදය	அணுகல் உரிமை
4.	agile model	සුවලස ආකෘතිය	சறுசறுப்பு மாதிரி
5.	alternate key	විකල්ප යතුර	மாற்றுச் சாவி
6.	American Standard Code for Information Interchange (ASCII)	තොරතුරු හුවමාරුව සඳහා වූ ඇමරිකානු සම්මත කේතය	தகவல் இடைமாற்றுக்கான அமெரிக்க நியம விதிக்கோவை
7.	amplitude	විස්තාරය	வீச்சம்
8.	amplitude modulation	විස්තාර මූර්ජනාව	வீச்சப் பண்பேற்றம்
9.	analog	ප්‍රතිසම	ஒப்புமை
10.	anchor	රැඳවුම	நிலை நிறுத்தி
11.	application layer	අනුප්‍රයෝග ස්ථරය	பிரயோக அடுக்கு
12.	architecture	නිර්මිතය	கட்டமைப்பு
13.	arithmetic and logical unit (ALU)	අංක ගණිත හා තාර්කික ඒකකය	எண்கணித மற்றும் தர்க்க அலகு
14.	array	අරාව	அணி
15.	artificial intelligence	කෘතිම මුද්ධිය	செயற்கை நுண்ணறிவு
16.	Affective computing	මුද්ධිමත් සහ චිත්තවේගී පරිගණකය	நுண்ணறிவு உணர்திறன்மிக்க கணித்தல்
17.	associative law	සංකටන න්‍යාය	கூட்டு விதி
18.	attenuation	වැහැරීම/තාපනය	நொய்மை
19.	attribute	උපලක්ෂ්‍ය / ලක්ෂණ / උපලක්ෂණය	பண்புகள்
20.	authoring tool	සම්පාදන මෙවලම	படைப்பாக்கக் கருவி
21.	Automated Teller Machine (ATM)	ස්වයංකාර මුදල් ගනුදෙනු යන්ත්‍රය	தானியங்கிப் பணம் கையாள் இயந்திரம்

22.	autonomous	கேவலமாதிரி/ கேவலமாதிரி/கேவலமாதிரி	கையாள்
23.	axiom	கேவலமாதிரி/கேவலமாதிரி	கேவலமாதிரி உண்மை
24.	backups	கேவலமாதிரி	கேவலமாதிரி
25.	bandwidth	கேவலமாதிரி	கேவலமாதிரி
26.	batch processing	கேவலமாதிரி	கேவலமாதிரி
27.	big data	கேவலமாதிரி	கேவலமாதிரி
28.	binary	கேவலமாதிரி	கேவலமாதிரி
29.	binary coded decimal (BCD)	கேவலமாதிரி	கேவலமாதிரி
30.	bio-inspired computing	கேவலமாதிரி	கேவலமாதிரி
31.	bit coin	கேவலமாதிரி	கேவலமாதிரி
32.	bitwise	கேவலமாதிரி	கேவலமாதிரி
33.	bitwise logical operation	கேவலமாதிரி	கேவலமாதிரி
34.	black box testing	கேவலமாதிரி	கேவலமாதிரி
35.	blogging	கேவலமாதிரி	கேவலமாதிரி
36.	boot-up	கேவலமாதிரி	கேவலமாதிரி
37.	broadcasting	கேவலமாதிரி	கேவலமாதிரி
38.	browsing	கேவலமாதிரி	கேவலமாதிரி
39.	bubble sort	கேவலமாதிரி	கேவலமாதிரி
40.	built-in	கேவலமாதிரி	கேவலமாதிரி
41.	business process re-engineering (BPR)	கேவலமாதிரி	கேவலமாதிரி
42.	candidate key	கேவலமாதிரி	கேவலமாதிரி
43.	cardinality	கேவலமாதிரி	கேவலமாதிரி
44.	cathode ray tube (CRT)	கேவலமாதிரி	கேவலமாதிரி

45.	central processing unit (CPU)	மீடும் கருவியூகம் லீககக	மத்திய செயற்பாட்டு அலக
46.	characteristics	கவீ லுக்ஷ / கீலுக்ஷ	சிறப்பியல்புகள்
47.	check box	கலகலு கலுல	சரிபார்ப்புப் பெட்டி
48.	client-server model	கீலா கீலக-கீலா டுடக காகக	சேவைப் பயனர் மாதிரி
49.	clock	கீலகீக	கடிகாரம்
50.	cloud computing	லுலகலு சரிகலக	மேகக் கணிகை
51.	coaxial cable	கமிகக கீலுல	ஓரச்ச வடம்
52.	code editor	கீக கண்டகரக	குறிமுறை துகுப்பி
53.	comment	லீலக	விளக்கக் குறிப்பு
54.	commutative law	ககககீக ககக	பரிமாற்று விதி
55.	compact disc	குககீக கீக	ஓளியியல் வட்டு
56.	compatibility	கலகலு	புகுருந்துகை
57.	compiler	கமிகக	துகுப்பான்
58.	component	கலக	கூறு
59.	composite key	கலகீக கலு	கூட்டுச் சாவி
60.	constant	கீக	மாதிரி
61.	content management system (CMS)	கீகரிக கலகககக	உள்ளடக்க முககமைத்துவ முறைமை
62.	context switching	கீகரிக கலக	சந்தர்ப்ப நிலைமாற்றல்
63.	contiguous allocation	கலக லீகக	அருத்தருத்தான ஓதுக்கீடு
64.	control structure	சலக லீக	கட்டுப்பாட்டுக் கட்டமைப்பு
65.	control unit (CU)	சலக லீக	கட்டுப்பாட்டலக
66.	credit card	கீக	கடனட்டை
67.	customization	கீகரிக	தனிப்பயனாககல்
68.	data	கீக	தரவு
69.	data and control bus	கீக கல சலக சரி	தரவும் கட்டுப்பாட்டுப் பாட்டையும்

70.	database management system (DBMS)	දත්ත සමුදාය කළමනාකරණ පද්ධති	தரவுத்தள முகாமைத்துவ முறைமை
71.	data definition language (DDL)	දත්ත නිර්වචන භාෂාව	தரவு வரையறை மொழி
72.	data dictionary	දත්ත ශබ්දකෝෂය	தரவு அகராதி
73.	data flow diagram	දත්ත ගැලීම් සටහන	தரவு பாய்ச்சல் வரையடம்
74.	data flow model (DFM)	දත්ත ගැලීම් ආකෘතිය	தரவு பாய்ச்சல் மாதிரி
75.	data link layer	දත්ත සබැඳි ස්ථරය	தரவு இணைப்பு அடுக்கு
76.	data manipulating language (DML)	දත්ත සැසුරුම් වස	தரவு கையாளல் மொழி
77.	data migration	දත්ත පරිවහනය	தரவு பெயர்ச்சி
78.	debugging	නිදොස් කිරීම	வழு நீக்கல்
79.	decision support system (DSS)	තීරණ සහාය පද්ධති	தீர்மான உதவு முறைமை
80.	declarative	ප්‍රකාශනමය	அறிவிப்பு
81.	default values	පෙරනිම් අගය	இயல்புநிலை மதிப்பு
82.	defragmentation	ප්‍රතිවිඛේදනය	துணிக்கை நீக்கல்
83.	demodulation	විචුර්ජනය	பண்பிறக்கம்
84.	device	උපාංගය / උපකුමය	சாதனம்
85.	device driver	උපාංග ධාවක මෘදුකාංග	சாதனச் செலுத்தி
86.	digital	අංකිත	இலக்க முறை
87.	digital camera	අංකිත කැමරාව	இலக்கமுறைப் படக்கருவி
88.	digital economy	අංකිත ආර්ථිකය	இலக்கமுறைப் பொருளாதாரம்
89.	digitizer	සංවිකානකතය	இலக்கமாக்கி
90.	direct implementation	සෘජුස්ථාපනය	நேரடி அமுலாக்கம்
91.	disk formatting	තැටි/ඩිස්ක හැඩසවි හැස්වීම	வட்டு வடிவமைப்பு
92.	distortion	විකෘතිය	திரிபு

93.	distributive law	பிசுபக நகாச	பங்கீட்டு விதி
94.	document flow diagram	தேவக வரீதீ சபகக	ஆவணப் பாய்ச்சல் வரைபடம்
95.	domain	பசும	ஆள்களம்
96.	domain name server (DNS)	பசுமீ நாம சீவாடாகக	ஆள்களப் பெயர் சேவையகம்
97.	domain name system (DNS)	பசுமீ நாம சடீவிக	ஆள்களப் பெயர் முறைமை
98.	dynamic host configuration protocol (DHCP)	தகிக டாரக சாலக கியலாபிடுக	மாறும் விருந்தோம்பி உள்ளமைவு நெறிமுறை
99.	dynamic web page	தகிக வெபீ சிடு	இயக்குநிலை வலைப்பக்கம்
100.	e-commerce	பீடசூவீ வாகிசக	மின் வர்த்தகம்
101.	economical feasibility	ஈர்பீக கைசதாலி	பொருளாதாரச் சாத்தியப்பாடு
102.	elementary process description (EPD)	இடுக கியாபிடு பீசீகரக	அடிப்படைச் செய்முறை விபரிப்பு
103.	e-market place	ஔ-வெலுட சோல	இலத்திரனியல் சந்தை இடம்
104.	encryption	ஒசீக கீதக	மறைகுறியாக்கம்
105.	enterprise resource planning system (ERPS)	பசவகாச கமீசவீ கரலுதீ சடீவிக	நிறுவன மூலவள திட்டமிடல் முறைமை
106.	entity	ஔார்பக/ஔகிஔகவீவக/கவீதாலி	நிலைபொருள்
107.	entity identifier	ஔார்பக/ஔகிஔகவீவக வலுதீவக	நிலைபொருள் அடையாளங்காட்டி
108.	entity relationship (ER) diagram	ஔார்பக கமீவீவகா ரகசபகக	நிலைபொருள் உறவுமுறை அட்டவணை
109.	executable	கியாவீக கல வகீ	இயக்கத்தகு
110.	executive support system (ESS)	பீடாகக ககாச சடீவிக	நிறைவேற்று உதவு முறைமை
111.	expert system	பீசீசுட சடீவிக	நிபுணத்துவ முறைமை

112.	extended binary coded decimal interchange cod (EBCDIC)	பீக்ஸாற டீபீமிய ஷீதக டுஊம	நீடித்த துவித குறிமுறை தசம இடமாற்றக் குறி
113.	extended entity relationship (ER) diagram	பீக்ஸாற ஊதார்பி ஷீலிஷீதிகா ருஊ ஷபித	விரிவாக்கப்பட்ட நிலைபொருள் உறவுமுறை அட்டவணை
114.	feasibility study	ஊதரதா ஊபிததத	சாத்தியப்பாடு கற்கை
115.	feedback loop	புறிஊஊஊ ஊபித	பின்னாட்டல் வளையம்
116.	fetch-execute cycle	ஊதரஊ-ஊிதாஊரஊபீ ஊபித	தருவிப்பு நிறைவேற்றுச் சுழற்சி
117.	fiber optic	புதாஊ தஷீஊ	இழை ஒளியியல்
118.	file	ஊஊபி	கோப்பு
119.	file hierarchy	ஊஊபி ஊரஊபிஊ	கோப்பு படிநிலை
120.	firewall	ஊி ஊபி	தீச்சுவர்
121.	normal form	புபித புபித ஊபிஊபி	இயல்பாக்கல் வடிவம்
122.	fixed internal hard disk	ஊபிஊ ஊதரதரஊ ஊபி தஊபீ	நிலையான உள்ளக வள்தட்டு
123.	flash memory	ஊஊ/ ஊஊஊஊஊஊஊஊ	பளிச்சீட்டு நினைவகம்
124.	flash memory card	ஊஊ/ ஊஊஊஊஊஊஊஊஊ	பளிச்சீட்டு நினைவக அட்டை
125.	flat file system	பீத ஊஊபி ஊபிஊபி	சமதளக் கோப்பு முறைமை
126.	flip-flop	பிபி-ஊஊ	எழு-விழு
127.	float	ஊபிஊஊ/ஊபிஊஊ	மிதவை
128.	floppy disk	ஊஊஊ தஊபீ	நெகிழ் வட்டு
129.	flow chart	ஊஊஊஊஊஊஊஊ	பாய்ச்சற் கோட்டுப்படம்
130.	folder	ஊஊபி ஊபிஊஊ	கோப்புறை
131.	foreign key	ஊஊஊஊஊஊஊஊ	அந்நியச்சாவி
132.	formatting	ஊபிஊஊஊஊஊஊஊ	வடிவமைத்தல்
133.	frame	ஊஊஊ	சட்டகம்
134.	frequency modulation	ஊஊஊஊஊஊஊஊஊ	அதிர்வெண் பண்பேற்றல்

135.	full adder	பூர்ணகலகம	முழுமகக் கூட்டி
136.	function	கூறம / காரீம	சார்பு
137.	functional dependency	காரீம ஢ீட்டி பரமதீதல	செயல் சார்புநீலை
138.	functional requirement	காரீம ஢ீட்டி அலசலல	செயல்படு தேவை
139.	quantum computing	கீலுல்தீ பரீதலல	சுாட்டு கணீப்பு அடிப்படை
140.	gateway	லுர்பு தல / லகல டீலரம / லகலலு	நுழைவாயில்
141.	genetic algorithm	கலப அலலுலரீதல	மரபணு வழிமுறை
142.	geographical information system(GIS)	஢ுலுலீ கலரலுரீ பட்டிவீ / தீகலகீ கலரலுரீ பட்டிவீ	புவியியல் தகவல் முறைமை
143.	graph plotter	புலீகார லுலுலுலகல	படவரையீ
144.	graphic tablet	லீலுலலுல	வரைவியல் விவரமககீ
145.	grid computing	புலுல பரீதலல	கலாட்டுச்சட்டகக் கணீமை
146.	guided media	கீலுல துல	வழிபடுதல்பட்ட ஊடகம்
147.	half adder	அரீலகலகம	அரை கூட்டி
148.	hand trace	கலீகலுலலுல	ககச் சுவடுகள்
149.	hard disk	டீலீ கலலீ / டீலீ லீகல	வந்தட்டு
150.	hardware	டீலீல	வன்புலுள்
151.	hexadecimal	கலீ டுலல	பதீனறுமம்
152.	hierarchical model	புலுலுலு ஁கலலீ	படிநீலை மாதிரீ
153.	host	கலீகாரகம	விருந்துலம்பீ
154.	hub	கலல	குவியன்
155.	human operator	தீகலீகலகலலுல	மனித துயக்குபவர்
156.	hybrid approach	டீலுலுலு புலுலல	கலப்பு அணுகல்
157.	hyperlink	அடீகலீலுலகம	மீ இணைப்பு
158.	Integrated circuits (IC)	அலுலலுல பரீபடு	லுருங்கீணைந்த சுற்று
159.	icon	கீலுலகம	சீறு படம்

160.	identity	சர்வீசுமம்	அடையாளம்
161.	image	ரூபம்	படிமம்
162.	imperative	பீடாநாதீகம்	கட்டளை
163.	incremental	வர்டிகாநாதீகம்	ஏறுமான, அதிகரிப்பு
164.	indexed allocation	அங்குலீகம் விகாசம்	கூட்டி ஒதுக்கீடு
165.	information	தொருரு	தகவல்
166.	inkjet printer	கீலீகம் விகுலம்	மைத்-தாரை அச்சுப்பொறி
167.	instant messaging	கீலீகம் பகிவிகி யலீகம்	உடனடிச் செய்தியிடல்
168.	integrated development environment(IDE)	கலீகம் கலீகம் கலீகம் பரீகம்	ஒருங்கிணைந்த விருத்தி சூழல்
169.	integration test	அங்குலகம் பரீகம்	ஒருங்கிணைந்த சோதிப்பு
170.	intelligent and emotional computing	விடீகம் கலீகம் பரீகம்	நுண்ணறிவும் உணர் திறனுமிக்க கணித்தல்
171.	interface	அருகம் விருகம்	இடைமுகம்
172.	internet service provider(ISP)	அதீகம் கலீகம் கலீகம்	இணையச் சேவை வழங்குனர்
173.	interpreter	அதீகம் கலீகம்	மொழிமாற்றி
174.	interrupt	அருகம் விருகம்	இடையூறு
175.	intranet	அதீகம்/ அதீகம்	அகவிணையம்
176.	internet of things (IoT)	கலீகம் கலீகம் அதீகம்/ கலீகம் கலீகம் அதீகம்	பொருட்களின் இணையம்
177.	iteration	புலீகம்	மீள் செயல்
178.	karnaugh map	கலீகம் கலீகம்	கானோ வரைபடம்
179.	knowledge management system(KMS)	கலீகம் கலீகம் கலீகம்	அறிவு முகாமைத்துவ முறைமை
180.	large scale integration (LSI)	பீகம் பரீகம் அதீகம்	பாரிய அளவு ஒருங்கிணைப்பு
181.	latency	பலீகம்/கலீகம்	மறைநிலை

182.	least significant	அபூமலேசெயி	சிறும மதிப்பு
183.	legend	லீசீகர் லாடய	குறி விளக்கம்
184.	life cycle of data	உதீத சீலல வலுய	தரவு வாழ்க்கை வட்டம்
185.	light emitting diode(LED) display	ஂலுேக லீலுேலவ டீலுேலி ஂசீடூர்ஂகல	ஂளிகாலும் ஂருவாயித் திரை / ஂளி ஂமிழும் ஂரு முனையம்
186.	linked allocation	ஂலுேடீ லீலாசலல	ஂணைப்பு ஂதுக்கீடு
187.	linker	ஂலீடார்ஂகல	ஂணைப்பி
188.	liquid crystal display(LCD)	ஂலிசீலீலீஂ ஂசீடூர்ஂகல	திரவப்பளிங்குக் கணினித் திரை
189.	list	லுடீசீலுல	பட்டியல்
190.	liveware	லீலாஂல	ஂயிர் ஂலாருள்
191.	local publishing	லீலாஂல ஂலிஂடீஂ ஂரீஂல	ஂள்ளக வெளியீடு
192.	local area network (LAN)	லீலாஂல ஂலுேஂ ஂலுல	ஂடத்தூரி வலையமைப்பு
193.	logic gate	லார்கீஂ டீலார்ல	தர்க்கப் படலை
194.	Logical Data Modeling(LDM)	லார்கீஂ டுதீத ஂலகஂஂஂல	தர்க்கத் தரவு மாதிரியுருவாக்கல்
195.	logical data structure	லார்கீஂ டுதீத வலுல	தர்க்கத் தரவுக் கட்டமைப்பு
196.	logical design tools	லார்கீஂ ஂலுலுலீ ஂலீலுலீ	தர்க்க வலுவமைப்புக் கருவி
197.	looping	லுலல	வளைய வரல்
198.	machine code	லஂலு ஂலீல	ஂயந்திரக் குறியீடு
199.	machine-machine coexistence	லஂலு-லஂலு ஂலலலலீலீ	ஂயந்திர- ஂயந்திர ஂருங்கிருத்தல்
200.	magnetic ink character reader(MICR)	லுலீஂஂீஂ ஂீஂல ஂலு ஂலுலு ஂலலலல	காந்த மை ஂழுத்துரு வாசிப்பான்
201.	magnetic stripe reader	லுலீஂஂ ஂீர் ஂலலலல	காந்தப்பட்டி வாசிப்பான்
202.	magnetic tape	லுலீஂஂ ஂலீல	காந்த நாடா
203.	malware	ஂலீஂஂ ஂலுலாஂல	தீம்பலாருள்

204.	management information system (MIS)	கළමகாக்கர்ண தோர்துரூ பட்டிமகிச	முகாமைத்துவ தகவல் முறைமை
205.	man-machine coexistence	மீகிசீ-ஓன்து கலபரூபீகீ	மனிதன் - இயந்திரம் ஒருங்கிருத்தல்
206.	media access control (MAC)	மூமிச பூபீச பாலக	ஊடக அணுகல் கட்டுப்பாடு
207.	memory management unit(MMU)	மிகக கலமகாக்கர்ண பீககச	நினைவக முகாமைத்துவ அலகு
208.	mesh topology	மரூசீ சீபீலகச	கண்ணி இடத்தியல்
209.	microprocessor	கீசூசூ கககசச	நுண்ணசயலி
210.	microwave	கீசூசூ தரூஓ	நுண்ணலை
211.	mini disk	கூமி தரூபீச	சிறு வட்டு
212.	mobile computing	பூஓம பரீஓகூசச	செல்லிடக் கணிமை
213.	mobile marketing	பூஓம அலூபீகர்ணூச	செல்லிடச் சந்தைப்படுத்தல்
214.	modularization	மூபீசூலகர்ணூச	கூறு நிலையாக்கம்
215.	modulation	மூர்பசச	பண்பேற்றம்
216.	most significant	பூபீம பூசூசூ	அதியுயர் மதிப்பு
217.	mother board	மபூ பூபரூப	தாய்ப்பலகை
218.	multi agent systems	மபூ காரக பட்டிமகி	பல்முகவர் முறைமை
219.	multi user-multi task	மபூ பரீகீலக - மபூ காரூச	பற்பயனர்-பற்பணி
220.	multi-core processors	மபூ கர் கககசச	பல்கரு சசயலி
221.	multimedia objects	மபூ மூமிச பீகீகூ	பல்லூடக பொருள்
222.	multiplexer	மபூ பரீகாரகச	பல்சேர்ப்பி
223.	multiplexing	மபூ பரீகர்ணூச	பல்சேர்ப்பு
224.	multiprocessing	மபூ கககசூ	பன்முறைவழியாக்கி
225.	multitasking	மபூகாரூச கீரீம	பற்பணி
226.	multi-threading	மபூ-அகூகூயூசச	பல் சசயல்கூறு
227.	nature inspired	பூகாசீ சூரீர பரீஓகூசச/	இயற்கை உள்ளீர்ப்புக்

	computing	புறக்கணி அனுபவீரண பரிகரணகை	கணினிப்பு
228.	nested loop	கிணின இலகை	நீடித்த வகையம்
229.	network addresses translating (NAT)	சாளு கைலு பரிகரணகை	வகையமைப்பு முகவரி பெயர்ப்பு
230.	network architecture	சாளு கிரகணகை	வகையமைப்புக் கட்டமைப்பு
231.	network layer	சாளு கீபரகை	வகையமைப்பு அடுக்கு
232.	network model	சாளு காகணகை	வகையமைப்பு காதிரி
233.	neural network	கீகையகை சாளுகை	நரம்பியல் வகையமைப்பு
234.	non-functional requirement	காரணகைகை கைலகை அலகைகை	செயல்சாராத தேவைகள்
235.	normalization	புலகைகைகை	இயல்பாக்கல்
236.	null	அகைகைகை	வெற்று
237.	object code	லகைகை கைகை/	பொருள் குறி
238.	object oriented	லகைகை கைகை / சாளுகை	பொருள் நகைக்குகை
239.	object- relational model	லகைகை-கைகைகை காகணகை	பொருள் கைலகைகை கைகை
240.	octal	அகைகைகை	எண்மம்
241.	office automation system (OAS)	காரணகை கைகைகைகை சாளுகைகை	அலகைகைகை தன்னியக்க முகைகை
242.	offline	கைகைகை அலகைகை/ கைகைகை கைகை	கைகைகை கைகை
243.	one's compliment	லகைகை அலகைகைகை	கைகைகை கைகை
244.	online	கைகைகை	கைகைகை கைகை
245.	open source	லகைகை கைகை	கைகைகை கைகை
246.	operational feasibility	கைகைகைகை கைகைகை	செயல்பாட்டுச் சாத்தியப்பாடு
247.	operator category	கைகைகை கைகைகை	செயலி வகை
248.	operator precedence	கைகைகை கைகைகை	செயலி முன்னுரிமை
249.	optical character reader (OCR)	புறக்கணி அலகை கைகை கைகைகை	கைகைகை கைகை கைகை

250.	optical mark reader (OMR)	புறக்கூறு கீயலிதழ	காந்த மை எழுத்துரு வாசிப்பான்
251.	output	புறக்கூறு	வெளியீடு
252.	packet switching	பேட்டி இலிமார்லி	பொதி மடைமாற்றல்
253.	paging	பிடுகலறதழ	பக்கமிடல்
254.	paradigm	இசுமூடூர்லதழ/ புறக்கூறு/புறக்கூறு	கோட்பாட்டுச் சட்டகம்
255.	parallel implementation	சுமூல்தர சீர்பதழ	சமாந்தர அமுலாக்கம்
256.	parameter passing	பரூமிதி லூபிதழ	பரமாளக கடத்தல்
257.	parity	சுமூலி	சமநிலை
258.	password	இர பதழ	கடவுச்சுால்
259.	payment gateway	லெலிமி லிசுலீ டீலார்ல	பணக் கொடுப்பனவு நுழைவாயில்
260.	periodic refreshing	ஊலிர்ல பூலெலிசுல	காலமுறை புதுப்பித்தல்
261.	peripheral device	பரலசீல லுலூலதழ / லுலூலதழ	புறச் சாதனம்
262.	phablet	லூலிடுலி	பெப்லட்
263.	phased implementation	ஊலிசீர்பதழ / பிசுலிர் கூலிசுலகூலி	கட்ட அமுலாக்கல்
264.	phase modulation	கலூ இரீசுலதழ	நிலை பண்பேற்றம்
265.	phishing	லூலிசுல	வழிப்பறித்தல்
266.	physical layer	லூலிசுல சீர்பதழ	பெளதீக அடுக்கு
267.	physical memory	லூலிசுல மிததழ	பெளதீக நிலைவகம்
268.	pilot implementation	கிசுலிசுல சீர்பதழ / கிசுலிசுல கூலிசுலகூலி	முன்னோடி அமுலாக்கல்
269.	piracy	லூலிசுல/ லூலிசுலதழ	களவு
270.	pirated software	லூலிசுல/லூலிசுல மூலூலூல	திருட்டு மென்பொருள்
271.	plagiarism	லூலிசுல/லூலிசுல லூலிசுலதழ	கருத்துத் திருட்டு
272.	point to point connection	சூலு லூலிசுல சுமூலிசுலகூலி	ஒன்றுடனொன்று இணைப்பு

273.	pointing device	දැක්වුම් උපාංගය	සட்டி சாதனம்
274.	port	කෙවෙතිය	வாயில், துறை
275.	portable external hard disk	ජංගම/සුවහතිය බාහිර දෘඩ තැටිය	காவத்தகு புற வன்தட்டு
276.	portal	ද්වාරය/ ආමුඛද්වාරය	வலைவாசல்
277.	Point of sale (POS) machine	විකුණුම් පොල යන්ත්‍ර	விற்பனை இட இயந்திரம்
278.	postulate	උපකල්පනය	எடுகோள்
279.	power supply	විදුලි සැපයුම/ජව සැපයුම	மின் வழங்கி
280.	presence check	තර්ථතා පරීක්ෂාව	இருத்தல் சரிபார்த்தல்
281.	presentation layer	සමර්පන/ඉදිරිපත් කිරීම් ස්ථරය	முன்வைப்பு அடுக்கு
282.	primary key	ප්‍රාථමික/මුලි යතුර	முதன்மைச் சாவி
283.	primitive data type	ප්‍රාථමික දත්ත වර්ගය	பூர்வீகத் தரவு வகை
284.	privacy	පෞද්ගලිකත්වය	அந்தரங்கம்
285.	private key	පෞද්ගලික යතුර	பிரத்தியேகச் சாவி
286.	process	ක්‍රියාවලිය/ක්‍රියායතනය/ සැකසුම	செயல்/ முறைவழியாக்கல்
287.	process control block(PCB)	ක්‍රියායතන පාලන ඛණ්ඩය	செயல் கட்டுப்பாட்டுத் தொகுதி
288.	process management	ක්‍රියායතන කළමනාකරණය	செயல் முகாமைத்துவம்
289.	process states	ක්‍රියායතන තත්ත්ව	செயல் நிலை
290.	process transition	ක්‍රියායතන සංක්‍රමණය	செயல் நிலைமாறல்
291.	product commercialization	විෂේෂාදාන වාණිජකරණය	தயாரிப்பு வர்த்தகமயமாக்கல்
292.	product of sum (POS)	වේතනයන්ගේ ඉඛිතය	கூட்டுத்தொகையின் பெருக்கம்
293.	program translator	ක්‍රමලේඛ පරිවර්තක	செய்நிரல் மொழிபெயர்ப்பான்
294.	proprietary	හිමිකම් සහිත	தனியுரிமை
295.	protocol	නියමාවලිය	நடப்பொழுங்கு

296.	prototyping	இலாகாக்கொடுப்பு	மூலவகை மாதிரி
297.	proxy server	நினைவுகாட்சி சேலாடாககக	பதிலாளர் சேலவககக
298.	pseudo code	லகாச கெகக	புலாலிக்ருறி
299.	public switch telephone network (PSTN)	புலாட சேலில டூகககக சாலக	புலாது ஆளியிடப்பட்டு தூலாலபுசல வலலககக
300.	public key	புலாட ககூக	புலாதுச சாலல
301.	pulse code modulation	சேசக்ட கெக இரககக	துடிப்புக்ருறி பண்புறறக
302.	pulse width modulation	சேசக்ட லகக இரககக	துடிப்பு அகலப்ப பண்புறறக
303.	radio button	லககூச கெகக	ரூடிபுலா புலாத்தாளர்
304.	random access memory (RAM)	சகலலலல டுலுல லககக	தறபுலாக்கு அணுகல் நலலவகக
305.	range check	பககக பகககல	வீசக சரலபார்த்தல்
306.	rapid application development (RAD)	இலூ கெகலுல லலலலகக	துரலத லலலபுலா வலருத்தல
307.	read only memory (ROM)	பகக லால லககக	வாலலப்பு மட்டுக நலலவகக
308.	real time	ககக காலக	நலகழ்நூக
309.	record	கககககக	பதல
310.	redo	கககக கககக	மீளச சேச
311.	redundancy	சககககககக	மலககக
312.	reference model	ககக ஂககக	வலலககககக கட்டுகக
313.	refreshing	புடிபு கககக	புத்தயலர்ப்பலத்தல்
314.	register memory	கககககக லககக	பதலகக
315.	relational	சககககக	தூலாடப்பு, ஁றவுநலல
316.	relational model	சககககக ஂககக	஁றவுநலல மாதலரல
317.	relational database	சககககக கககக கககக	஁றவுநலல தரவுத்தளக
318.	relational instance	சகககககக ககககக	தூலாடப்பு மூறல ககககககக

319.	relational schema	சமீகிவ்வொ பரிபாபிக ஁பகை	தொடர்பு முறைத் திட்டம்
320.	relationship	சமீகிவ்வொபிச	தொடர்புமுறை
321.	remote	஁ர஁஁	தொலை, தூர
322.	render	பி஁஁஁	வழங்கு
323.	repeater	புற஁஁஁஁	மீளி, மீட்டி
324.	repetition	புற஁஁஁஁	மீள் செயல்
325.	reset button	புற஁஁஁஁ ஁஁஁஁஁஁	மீளமைப்புப் பொத்தான்
326.	retrieve	஁஁஁஁஁஁	மீளப்பெறு
327.	return value	புற஁஁஁஁஁ ஁஁஁	திரும்பல் பெறுமானம்
328.	reverse auction	புற஁஁஁஁஁஁஁஁	஁திர்தாற்று ஁லம்
329.	ring topology	஁஁஁ ஁஁஁஁஁	வளைய இடத்தியல்
330.	router	஁஁ ஁஁஁஁஁	வழிப்படுத்தி, வழி஁஁஁஁஁஁
331.	routing	஁஁ ஁஁஁஁஁஁஁	வழி஁஁஁஁஁஁஁
332.	scanner	஁஁஁஁஁஁஁஁	஁஁஁஁஁ ஁஁஁஁஁
333.	scheduler	஁஁஁஁஁஁஁஁	஁஁஁஁஁஁஁஁஁஁
334.	scope of variable	பி஁஁஁஁஁஁஁஁	மாறி செயற்பரப்பு
335.	query	பி஁஁஁஁஁	வினவல்
336.	selection	஁஁஁஁஁	தெரிவு
337.	selector	பி஁஁஁஁	தேர்வி, தேர்஁஁஁஁஁஁஁
338.	sensor	஁஁஁஁஁஁஁஁	஁஁஁஁
339.	sequence	஁஁஁஁஁஁	தொடர்
340.	sequential circuit	஁஁஁஁஁஁஁஁஁஁஁	தொடர்஁஁஁஁஁
341.	sequential search	஁஁஁஁஁஁஁஁஁஁	வரி஁஁஁஁஁஁஁஁஁஁
342.	server	஁஁஁஁஁஁஁஁஁ / ஁஁஁஁஁஁஁஁	஁஁஁஁஁஁஁஁
343.	session layer	஁஁஁஁஁஁஁஁	஁஁஁஁஁஁஁஁஁஁
344.	sharable pool	஁஁஁஁஁஁஁஁஁஁	஁஁஁஁஁஁஁஁஁஁
345.	sign-magnitude	஁஁஁஁஁஁஁஁஁஁஁ / ஁஁஁஁஁஁஁஁	஁஁஁஁஁஁஁஁஁஁஁஁஁

		பரிமாணம் / அளவு பரிமாணம்	
346.	single user-multi task	ஐக பரிசீலம்-வழி கார்டம்	தனிப்பயனர்-பற்பணி
347.	single user-single task	ஐக பரிசீலம்-ஐக கார்டம்	தனிப்பயனர்-தனிப்பணி
348.	smart card	சூழல் கார்டம்	சூழ்கை அட்டை
349.	smart phone	சூழல் சூழல்	சூழ்கைத் தொலைபேசி
350.	smart system	சூழல் சட்டம்	சூழ்கை முறைமை
351.	social networking	சமூக சூழல்	சமூக வலையமைப்பாக்கல்
352.	software	சொருமை	மென்பொருள்
353.	software agent	சொருமை கார்டம்	மென்பொருள் முகவர்
354.	sort	சரிசெய்தல்	வரிசைப்படுத்து
355.	source	சூழல்	மூலம்
356.	spiral model	சுருளி அமைப்பு	சுருளி மாதிரி
357.	spooling	சுருளி	சுற்றுதல்
358.	Star topology	தாரகா சூழல்	வின்மன் இடத்தியல்
359.	stepwise refinement	படிபடிக்கார பரிசீலம்	படிமுறை நீக்கல்
360.	storage	அலகம்	சேமிப்பு
361.	storage allocation	அலகம் பரிசீலம்	சேமிப்பு ஒதுக்கல்
362.	stored program concept	அலகம் சூழல் அமைப்பு	சேமிக்கப்பட்ட செய்நிரல் எண்ணக்கரு
363.	structure	வழி	கட்டமைப்பு
364.	structure chart	வழி அமைப்பு	கட்டமைப்பு வரைபடி
365.	structured	வழி	கட்டமைப்புவழி
366.	structured query language(SQL)	வழி அமைப்பு வழி	கட்டமைப்பு வினவல் மொழி
367.	submit button	சமர்ப்பித்தல்	சமர்ப்பித்தல் பொத்தான்
368.	subnet mask	சூழல் சூழல்	உபவலை மறைமுகம்
369.	sub-netting	சூழல்-சூழல்	உபவலையமைப்பு

370.	sub-program	௨௪-நுழைவேடு	துணைச் செய்நிரல்
371.	sum of products (SOP)	ஒலீதலல் லேதல	பெருக்கங்களின் கூட்டுத்தொகை
372.	supply chain management	கூபதூலீ தூத கதூதகாதரணல	வநீநீயோக சங்கிலித்தொடர் முகாமைத்துவம்
373.	swapping	தூதீதரணல	இடமாற்றல்
374.	switch	தீலீலல	ஆளி
375.	syntax	காரக ரீதீ	தொடரியல்
376.	system development life cycle(SDLC)	தடீதீதீ கூலீரீதல தீலத லதூத	முறைமை வநூத்தீ வாழ்க்கை வட்டம்
377.	table	லதூல	அட்டவணை
378.	table check constraint	லதூ தரீதூ கூலீதீதல	அட்டவணை சரிபார்த்தல் கட்டுப்பாடு
379.	tag	௨தூதல	ஒட்டு
380.	Technical feasibility	தாதீதூத கதலதல	தொழினூத்பச் சாத்தியக் கற்கை
381.	telecommuting	தூதீ கூலீதல / தூத கதீதீதீதல	தொலைசெயல்
382.	testing strategy	தரீதூத ௨தூதல	பரீதீதல் உபாயம்
383.	text and font	தல தல தீதூ	வாசகமும் எழுத்துருவும்
384.	text formatting	தல தலதீதீ தலதீதீ	வாசக வடிவமைப்பு
385.	text input	தல தலதல	வாசக உள்ளீடு
386.	normal form	தூத தலதீதல	இயல்பாக்கல் வடிவம்
387.	thumbnail	கூதலீ தூ	குறும்படம்
388.	time division modulation (TDM)	கால தீதூதீ தூதீதல	நேரப் பிரிவுப் பண்பாக்கம்
389.	time sharing	கால தீதல	நேரப்பகிர்வு
390.	timing	கால தலதல	நேரக்கணிப்பு
391.	top down design	இதூத தீதீ காலதூத	மேலிருந்து கீழான வடிவமைப்பு

392.	touch pad	சீபர்ஷை டௌபட / சாட்கை	தொடு அட்டை
393.	touch screen	சீபர்ஷை கீர்ஷ	தொடுதிரை
394.	transaction processing system (TPS)	ஷெடேஷு ஷைஷை பீடீஷை	பரிமாற்றச் செயலாக்க முறைமை
395.	transitive dependency	ஷெஷை பீர்ஷை	மாறும் சார்பு நிலை
396.	transport layer	பீர்ஷை சீர்ஷ	போக்குவரத்து அடுக்கு
397.	transport protocol	பீர்ஷை திஷை	போக்குவரத்து நடப்பொழுங்கு
398.	tuple	டௌஷை/ஷை	பதிவு/நிரை
399.	twisted pair	ஷை டுஷை	முறுக்கிய சோடி
400.	two's compliment	ஷை அஷை	இரண்டின் நிரப்பி
401.	type check	பீர்ஷை பீர்ஷை	வகை சரிபார்த்தல்
402.	constraint	ஷை	கட்டுப்பாடு வகை
403.	ubiquitous computing	ஷை அஷை	எங்கும் வியாபித்த கணிமை
404.	undo	அஷை கீர்ஷ	செயல்தவிர்
405.	unguided media	திஷை ஷை	வழிபடுத்தப்படாத ஷை
406.	uni-casting	ஷை	தனிப்பரப்பல்
407.	unicode	ஷை/ ஷை	ஒற்றைக்குறி முறை
408.	unique constraint	அஷை ஷை	தனித்துவக் கட்டுப்பாடு
409.	unit testing	ஷை பீர்ஷை	அலகுச் சோதனை
410.	universal	ஷை	பொது
411.	updating	ஷை கீர்ஷ	தற்காலப்படுத்தல்
412.	user	பீர்ஷை	பயனர்
413.	user defined	பீர்ஷை தீர்ஷை	பயனர் வரையறை
414.	validation	பீர்ஷை	செல்லுபடியாக்கல்
415.	variable	பீர்ஷை	மாறி
416.	very large scale integration (VLSI)	ஷை பீர்ஷை அஷை	மிகப் பெரியளவிலான ஒருங்கிணைப்பு

417.	video graphic adapter (VGA)	புது பிணை அணுகுமுறை	காணொளி வரையி யொருத்தி
418.	virtual community	அதன் புவலி	மெய்நிகர் சமுதாயம்
419.	virtual memory	அதன் மனகட	மெய்நிகர் நினைவகம்
420.	virtual storefront	அதன் வெள்ளை புகட்டுகாணொளி	மெய்நிகர் கடைமுகப்பு
421.	waterfall model	புது அணுகு முறை	நீர் வீழ்ச்சி மாதிரி
422.	wave length	தரம் அளவு	அலை நீளம்
423.	web portal	வெள்ளை புகட்டுகாணொளி	வலை வாசல்
424.	web server	வெள்ளை புகட்டுகாணொளி	இணைய சேவையகம்
425.	web service provider	வெள்ளை புகட்டுகாணொளி	இணைய சேவை வழங்குனர்
426.	white box testing	புது அணுகு முறை	வெள்ளைபுகட்டுகாணொளி சோதிப்பு
427.	world wide web(WWW)	புது அணுகு முறை	உலகளாவிய வலை
428.	uniform resource locator (URL)	புது அணுகு முறை	சீர்மை வள இருப்பிடங்காட்டி
429.	uniform resource identifier(URI)	புது அணுகு முறை	சீர்மை வள அடையாளங்காட்டி

