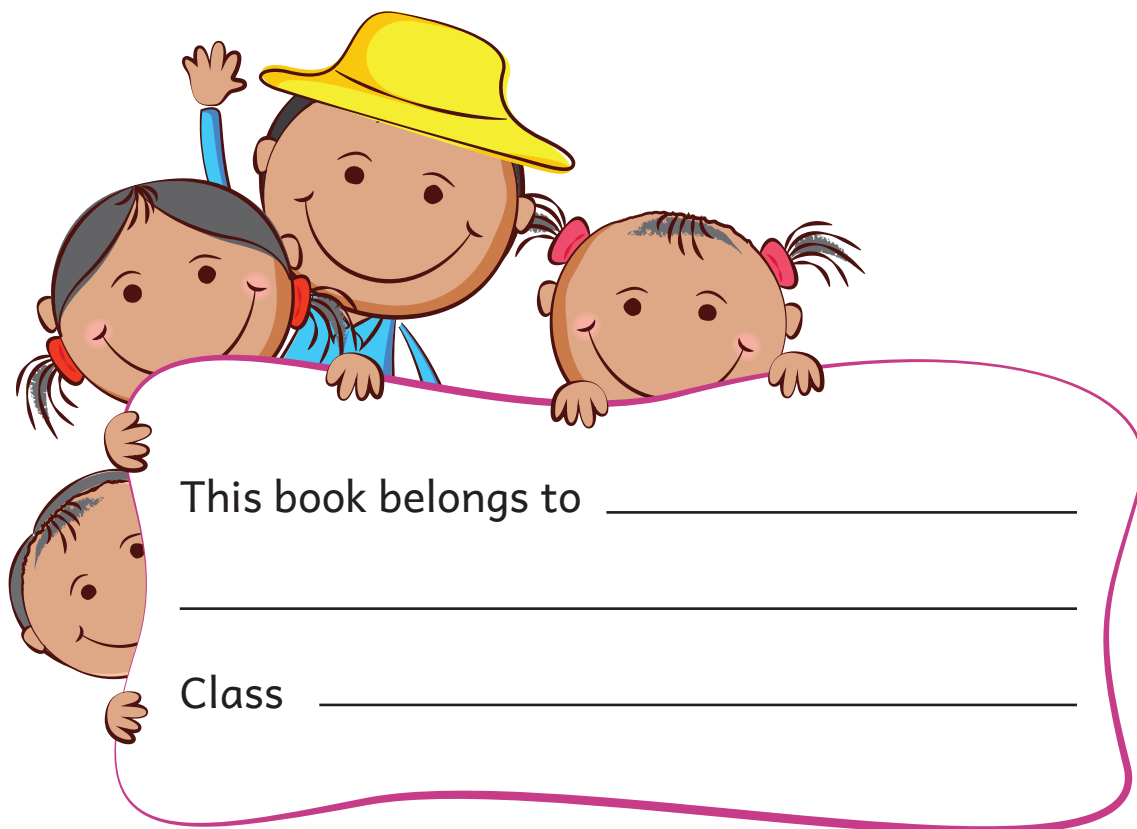


Exploring ICT

Student Activity Book

2

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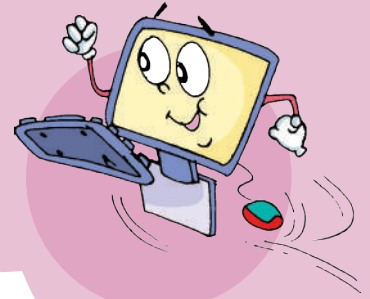
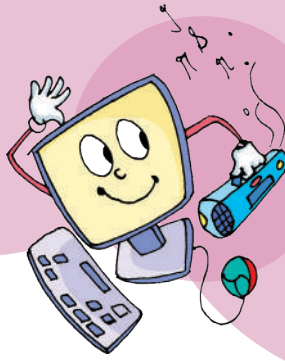
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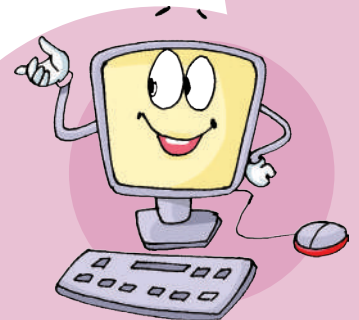
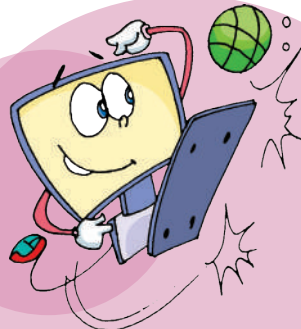
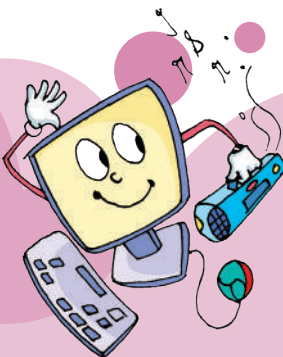
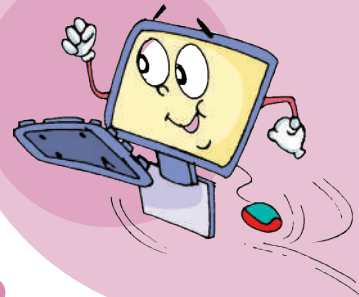
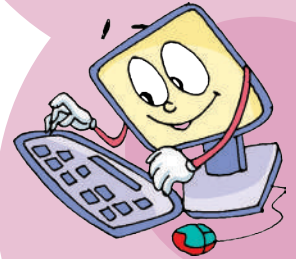
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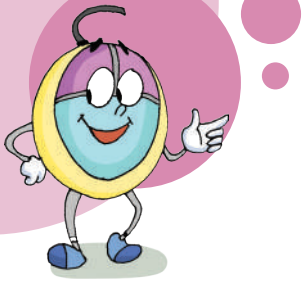
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CONTENTS

1. Know Your Computer1





PREFACE

Exploring ICT are textbooks based on the requirements of the Information and Communication Technology syllabus for key stage 1, developed by the National Institute of Education. The learning experiences in the books provide a solid foundation of balanced instruction and offer a fresh approach to teaching and learning of ICT.

The book is designed to help students become proficient in ICT. The innovative computer applications and activities in the book reinforce the idea that technology can be used in many forms and can be made a part of our routine lives. The underlying pedagogy followed is to 'learn by doing' to develop skills of students through unique and creative activities that focus on both understanding and learning.

The activities are interactive in nature and well integrated with other subjects. The integration of technology is imperative since it has become a platform for teachers and students across the globe to communicate and share instructional materials.

We extend our sincere thanks to Cambridge University Press for partnering with us in this endeavour.

We are beholden to the members of the NIE Curriculum Team for the support rendered.

Aishath Shibana
TRC Co-ordinator



Know your Computer

SNAP RECAP

The main parts of a computer are the Monitor, the Keyboard, the Mouse and the CPU. Color them.



ACTIVITY 1

Match the machine with its function.

A.



1. It is used to travel long distances in a short time.

B.



2. It is used to bake cakes.

C.



3. It is used to watch movies, store data and solve sums.

D.



4. It is used to sew clothes.

E.



5. It is used to talk to family and friends.

Learning Objectives

You will learn about:

1. Working of a computer
2. Input devices
3. Processing devices
4. Output devices
5. Storage devices



Who am I?

I am a machine that works very fast,
I can store information that is very vast.

I use electricity to run,
Watching movies on me is great fun.

Games with me are good to play,
I teach you many new things along the way.

I have no fingers and I have no toes,
Neither a mouth, nor a nose.

Guess, who am I?

I am a computer.

Computer

A computer is an electronic machine that stores, retrieves and processes data.



A computer

Characteristics of a Computer

The characteristics of a computer are Speed, Accuracy, Diligence and Reliability.



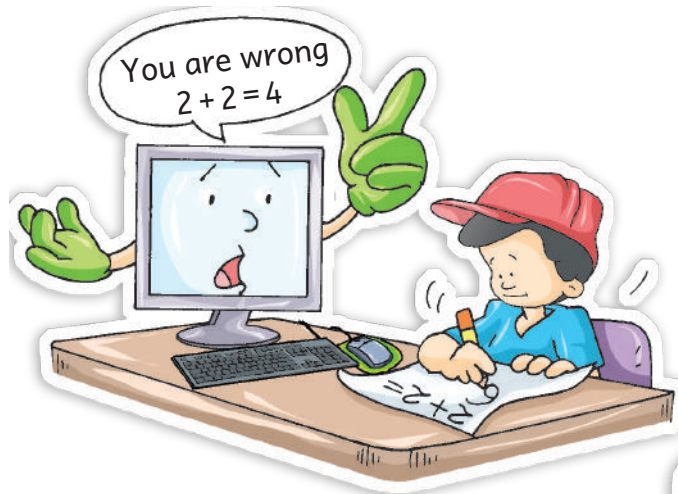
Speed

A computer can perform a large number of actions quickly.

Computers work faster than you do

Accuracy

A computer always gives right results.



Computers never make mistakes



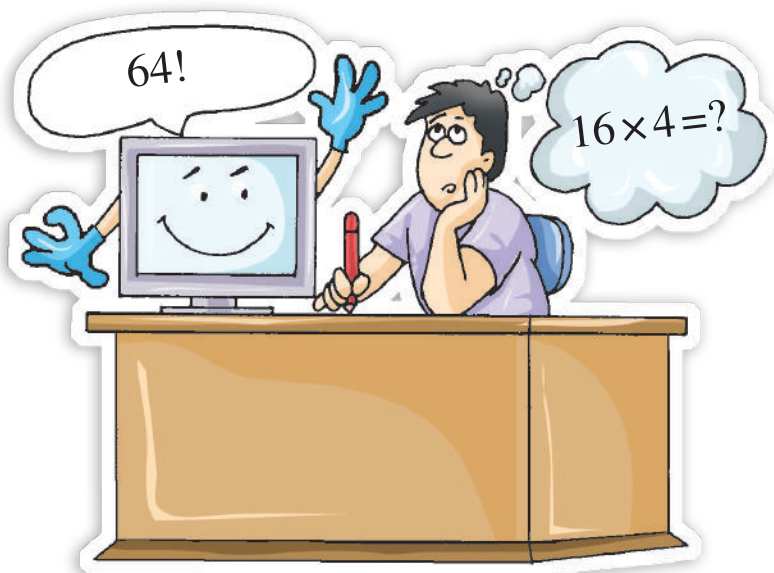
Computers never get tired

Diligence

A computer does not get tired or bored. It can work for long hours.

Reliability

A computer is dependable. It never forgets or make mistakes.



Computers never forget

ACTIVITY 2

Shaheema wants to use the computer. She goes to her brother's room and finds the computer as shown.



She recalled what her teacher had taught her in the computer class. Help her prepare a computer safety list for her brother.

1

2

3

4

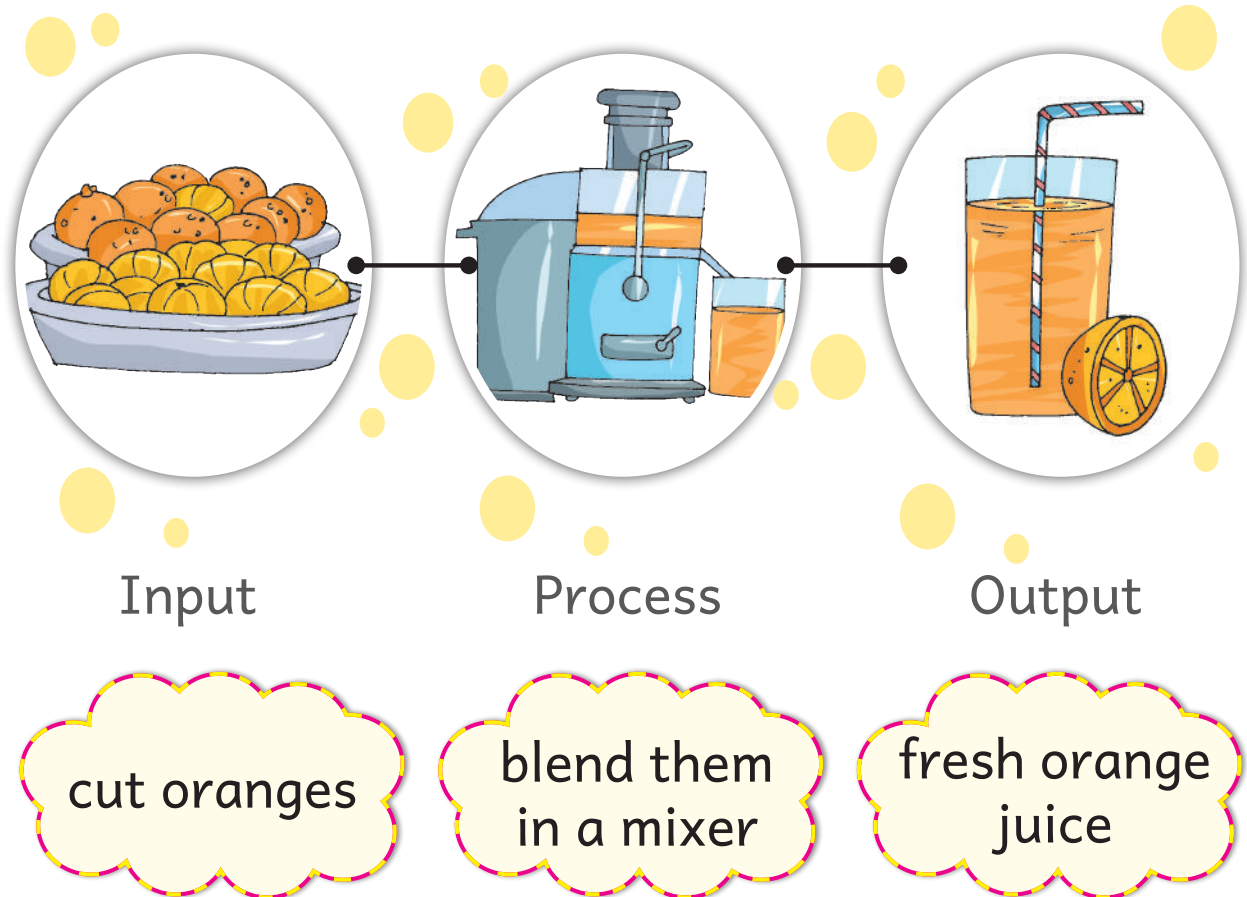
5

Working of a Computer

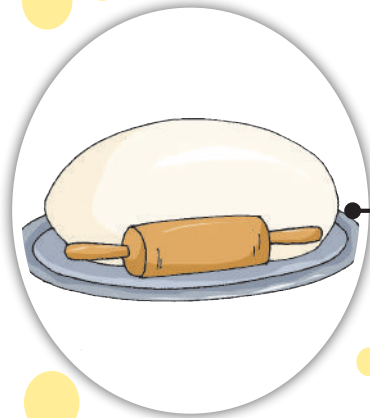
A computer performs tasks by following the Input-Process-Output (IPO) cycle.

Let us understand the meaning of the IPO cycle using some real-life examples.

To make orange juice:

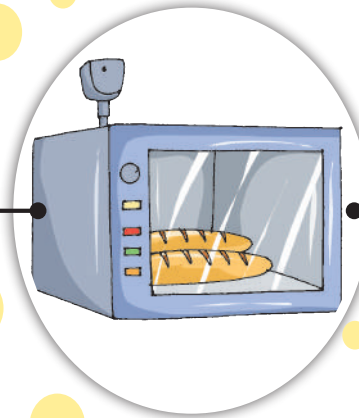


To bake bread:



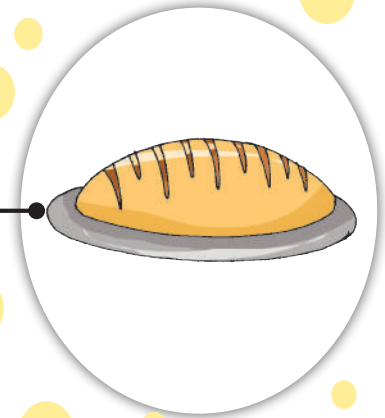
Input

prepare
dough



Process

bake it in an
oven



Output

hot yummy
bread

To make a Lego toy:



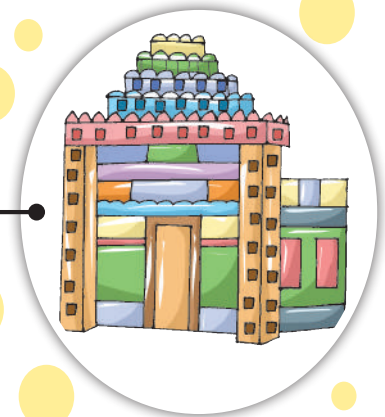
Input

building
blocks



Process

making
a toy



Output

fun toy

Similarly, a computer also follows the Input-Process-Output cycle.



The devices used to enter data into a computer are known as **input devices**.

The entered data is sent to the **processing device**. Here, the data is processed and converted into meaningful information.

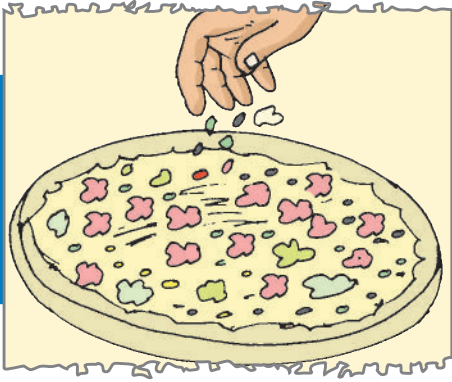
The result of processing is called **output**. The devices used to show the output are known as **output devices**.

The devices used to store the output (for later use) are known as **storage devices**.

ACTIVITY 3

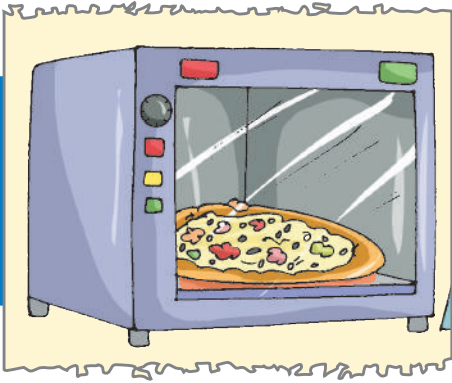
Explain the process of preparing a pizza.

Step 1



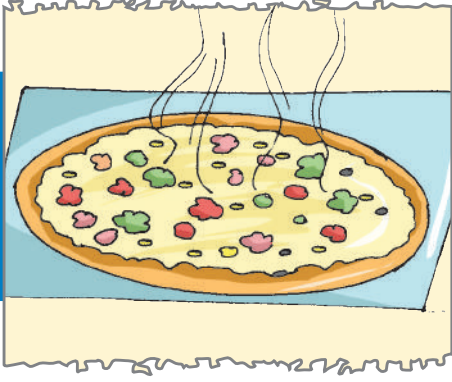
.....
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.....
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Step 2



.....
.....
.....
.....

Step 3

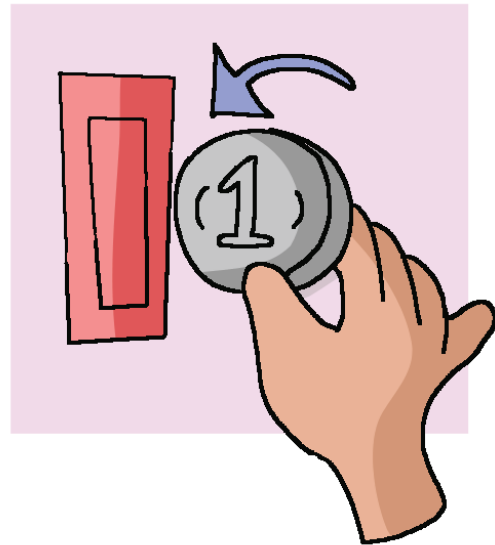
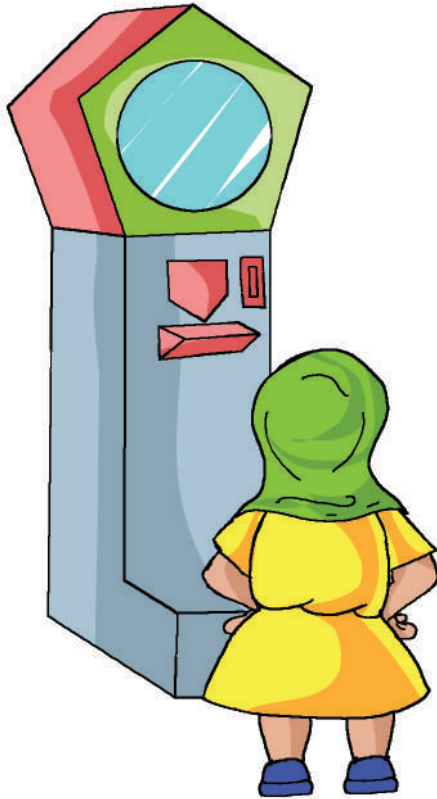


.....
.....
.....
.....



ACTIVITY 4

When you put a coin in the weighing machine, your weight gets printed on a piece of paper. What is the input and output in this activity?



Input Device

They help us in giving instructions to the computer.

Some of the input devices are:

- Keyboard
- Mouse
- Joystick
- Microphone
- Web Camera
- Scanner



Keyboard

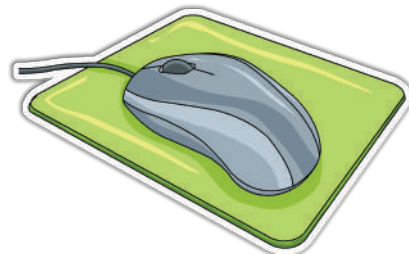
It is used for entering data into the computer system. It can type words, numbers and symbols.



Keyboard

Mouse

It is a pointing device. We can give input to a computer with the help of a mouse.



Mouse kept on a mouse pad

ACTIVITY 5

A. Using a computer mouse, open Notepad.
Write down the steps you followed.

1

2

3

4

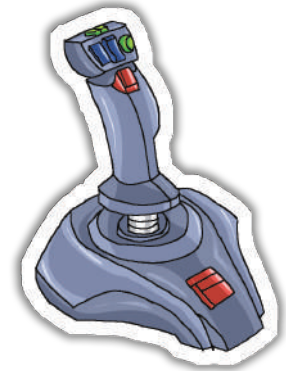
B. Now using a keyboard, type the following and save the file.

We must wash our hands properly and regularly. We should wash our hands:

- Before and after we eat food.
- After we play with our pet.
- After we cover our mouth while coughing.
- After we use the toilet.
- Before and after we meet somebody sick.

Joystick

It makes playing computer games a lot more fun. When it is moved, it passes information to the computer.



Joystick



Microphone

Microphone

It is a mike that can be attached to a computer. It allows us to input sounds into the computer.

Web Camera

It is used to take live photos and videos.



Web camera



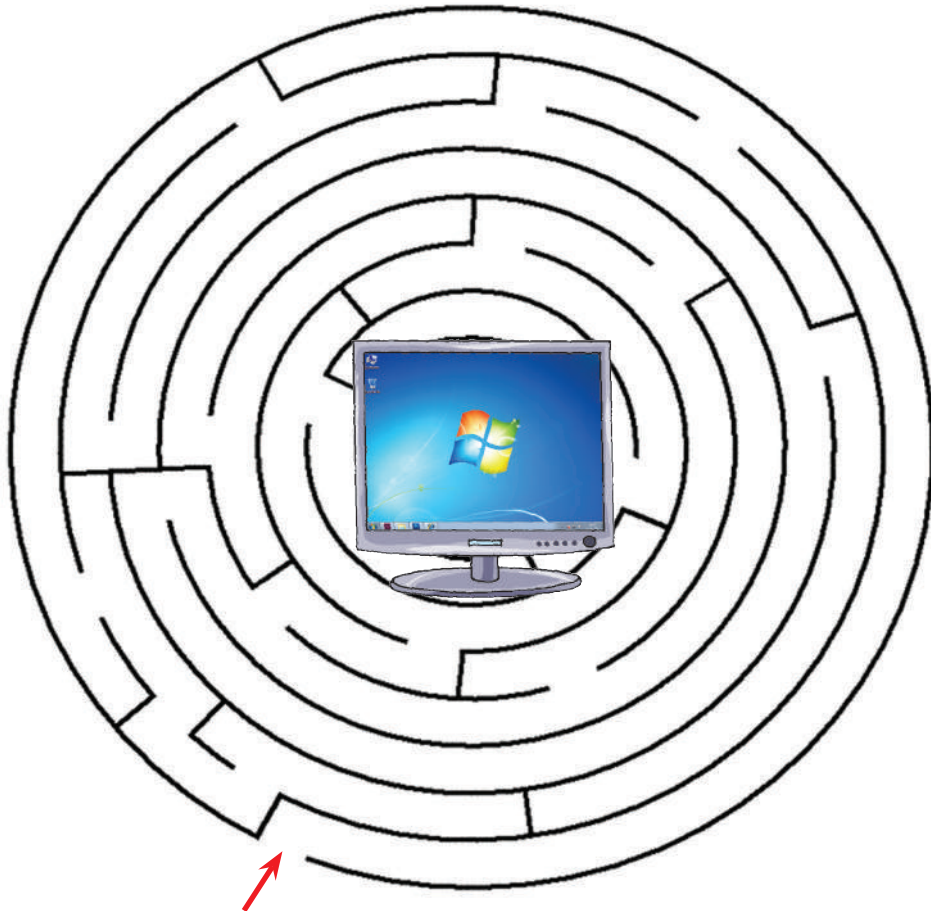
Scanner

Scanner

It copies pictures and pages, and turns them into images.

ACTIVITY 6

Name the input devices. Help them reach the computer system.



A.



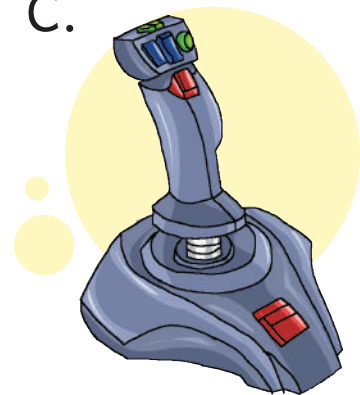
.....

B.



.....

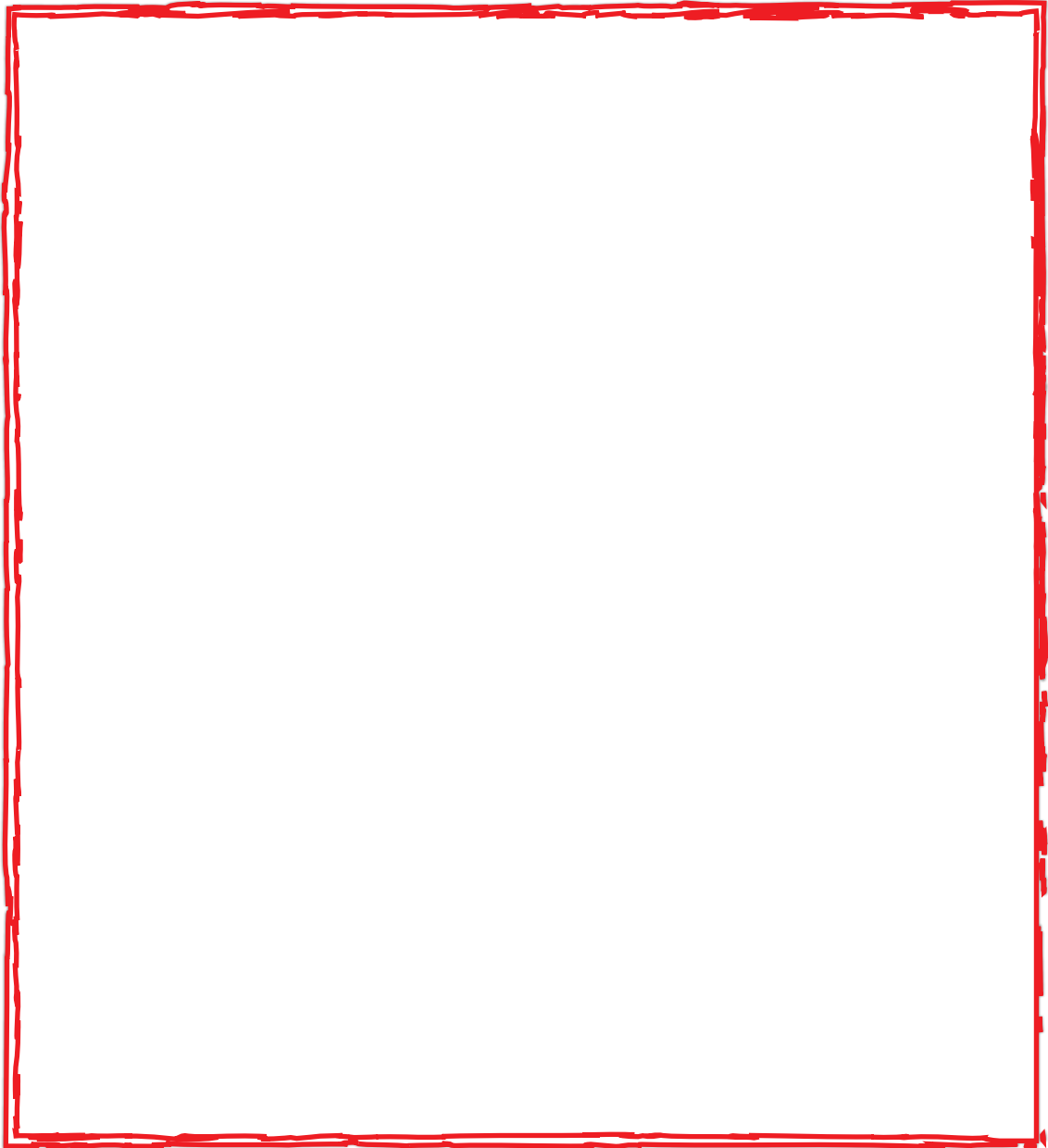
C.



.....

ACTIVITY 7

A. Draw and color a portrait of your family.



B. Name a device you can use to transfer the photo from your book to the computer.

.....

ACTIVITY 8

A. SING AND MOVE

Sing and sway every day,

Clap and move your feet.

Sing and sway everyday,

Moving to the beat.

Wiggle your elbows,

Knock your knees.

Move and have some fun!

Sing and sway everyday,

Until the song is done.



B. Name a device you can use to record this song on your computer.

.....

ACTIVITY 9

Your father is on another island. How can you send him live images from your room?



.....

.....

ACTIVITY 10

Rearrange the letters to form the name of input devices.

1. JYOTSIKC

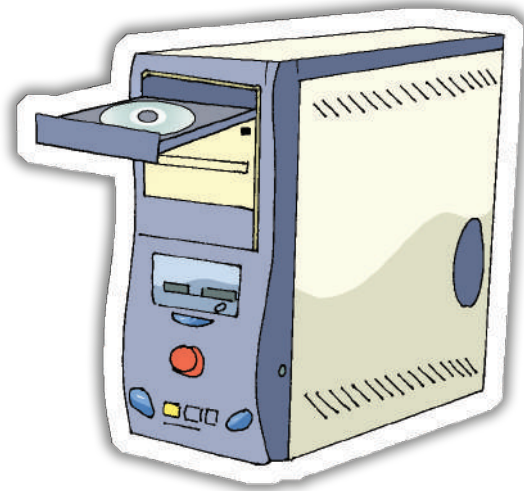
2. MOCRIPOHEN

3. WBE CAEMAR

4. SACENNR

Processing Device

All the inputs are stored, sorted, arranged and changed by a computer. The device that helps a computer to do so, is called the processing device. The processing device in a computer is known as **Central Processing Unit (CPU)**.



CPU

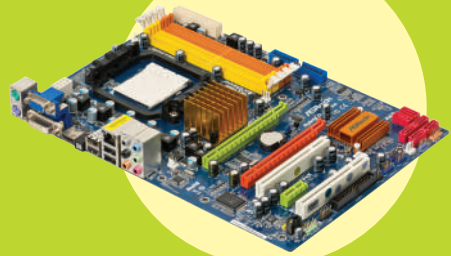
Parts of a CPU



Hard Disk



Memory Card



Mother Board



CD Drive



Power Switch

Output Device

They show the result of processing.

Monitor

It looks like a television screen.
It shows what we type or draw.



Monitor

Different types of Monitor



14 inches Monitor



17 inches Monitor



Flat Screen Monitor



LCD Monitor

Printer

It prints the output on a sheet of paper. This is called a printout.



Printer

Different types of Printer



Dot Matrix Printer



Line Printer



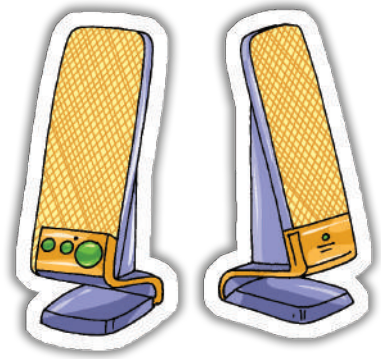
Laser Printer



Inkjet Printer

Speakers

We can listen to music or sounds stored on the computer with the help of speakers.

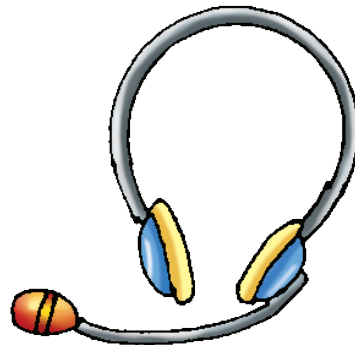


Speakers



FUN FACTS!!!

We can also listen to music stored on the computer with headphones. They help us listen to music without disturbing others. They come with a microphone attached to it.



ACTIVITY 11

Rearrange the letters to form the name of an output device.

1. T O M I N R O

.....



2. S E P A R E K S

.....



3. H A E P D H N O E

.....



4. P I N R T R E

.....



ACTIVITY 12

Ali is doing his English homework on the computer. He has to perform some task. Name the device he can use.

A. Listen to poem

B. Print his homework

ACTIVITY 13

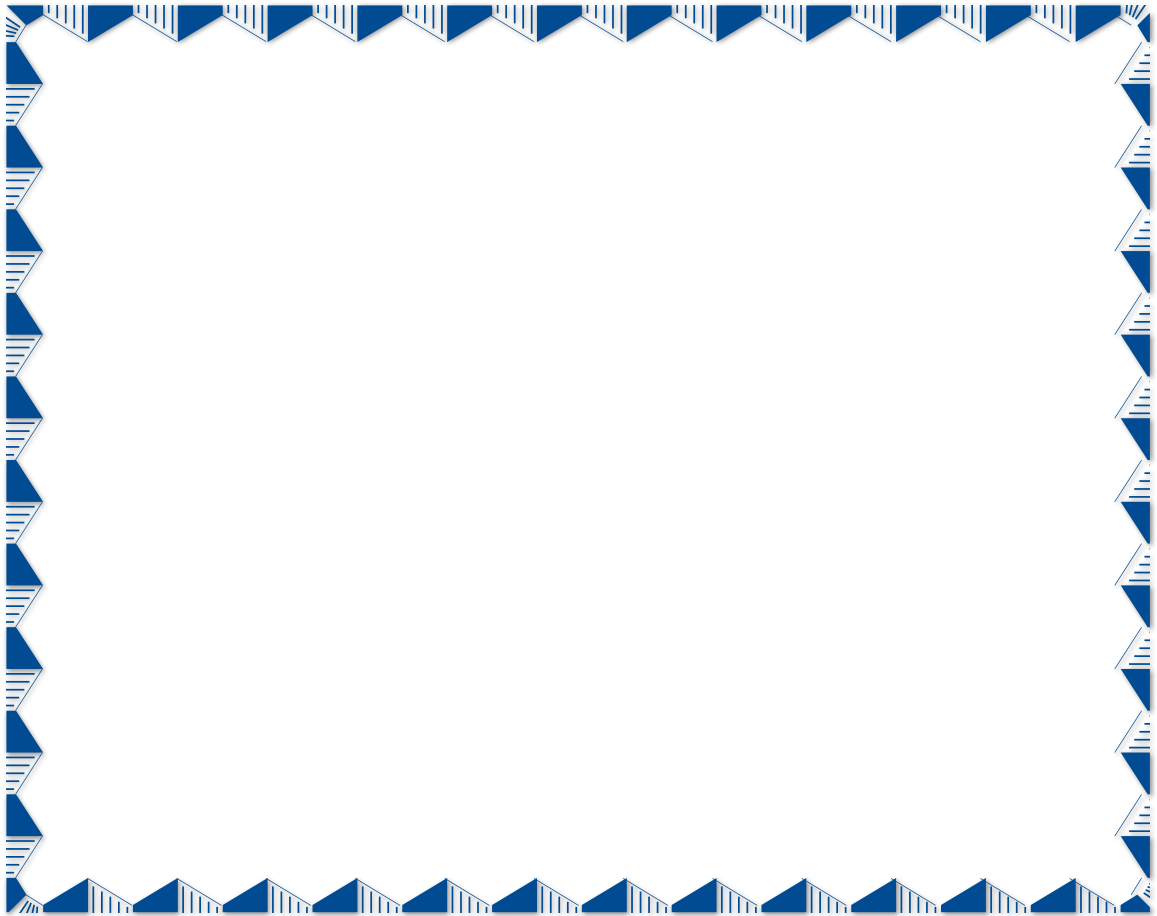
1. Read.

Likes are things that you enjoy. They make you happy. **Dislikes** are things that you do not enjoy. They make you unhappy. It is important to respect everyone's likes and dislikes. Your likes and dislikes make you unique and special.

2. Now type it in WordPad.

3. Take a print out.

4. Paste it below.



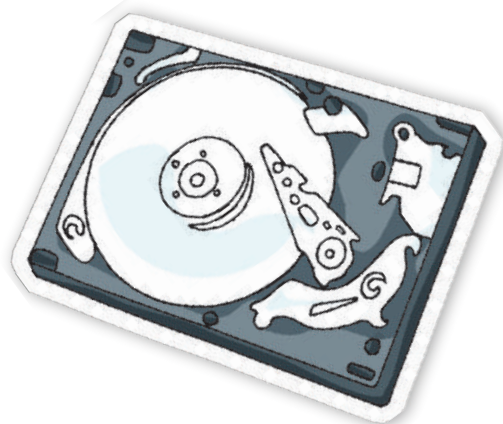
Storage Devices

They are used for storing data permanently.

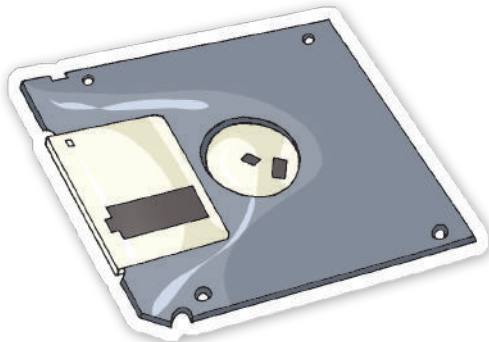


Hard Disk

It is present inside the CPU.
It stores a large amount of information.



Hard disk



Floppy disk

Floppy Disk

It stores a small amount of information. It works when it is inserted into the floppy drive.

Compact Disc (CD)

It stores a lot more information than a floppy disk. It works when it is inserted into the CD drive.



CD

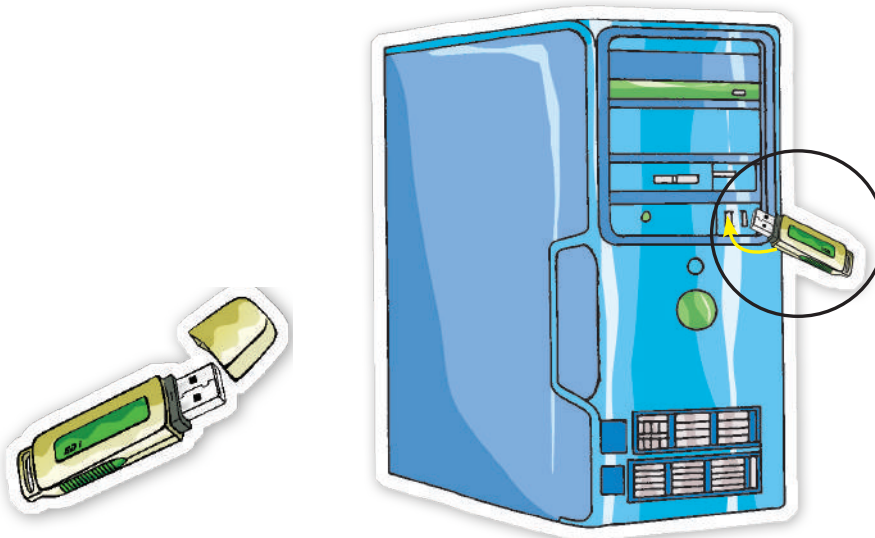
Did You Know?



If we do not handle the CD properly we may lose the data stored in it.

Pen Drive

It can store a large amount of data. It is also known as a flash drive. It can be easily carried around.

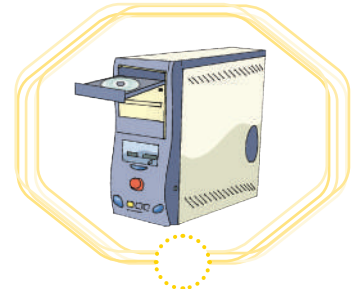
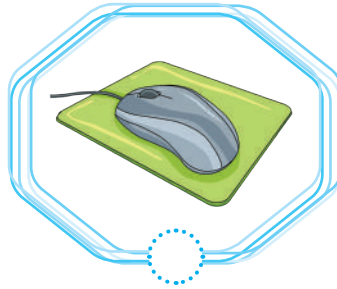


Inserting a Pen Drive

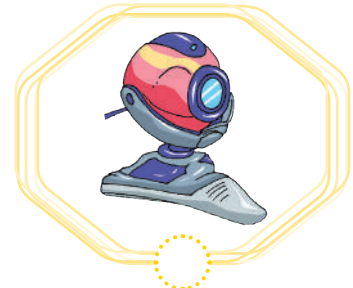
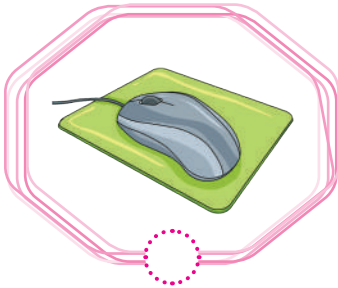
ACTIVITY 14

Cross (x) the odd one out.

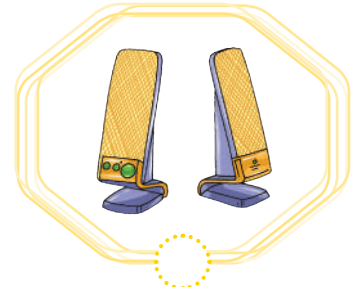
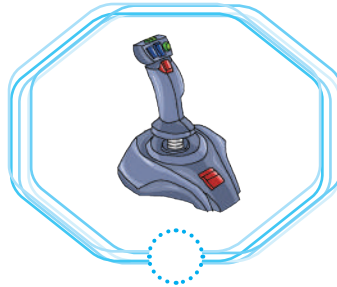
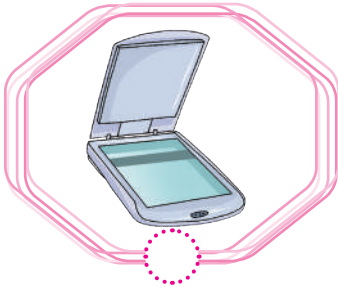
A.



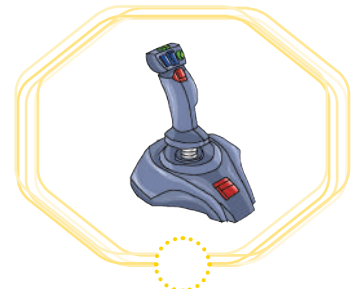
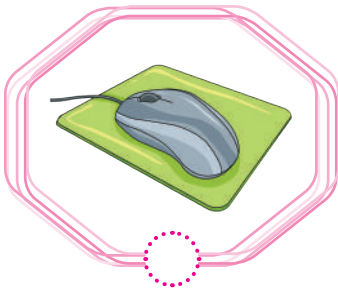
B.



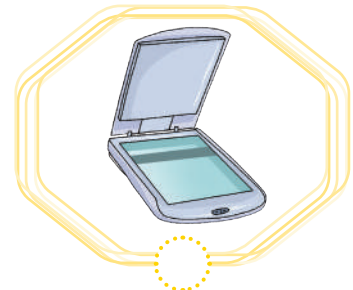
C.



D.



E.



ACTIVITY 15

Tick (✓) the correct answer.

A.



Input Device



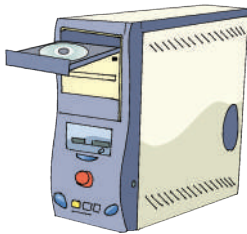
Processing Device



Output Device



B.



Input Device



Processing Device



Output Device



C.



Input Device



Processing Device



Output Device



D.



Input Device



Processing Device



Output Device



E.



Input Device



Processing Device

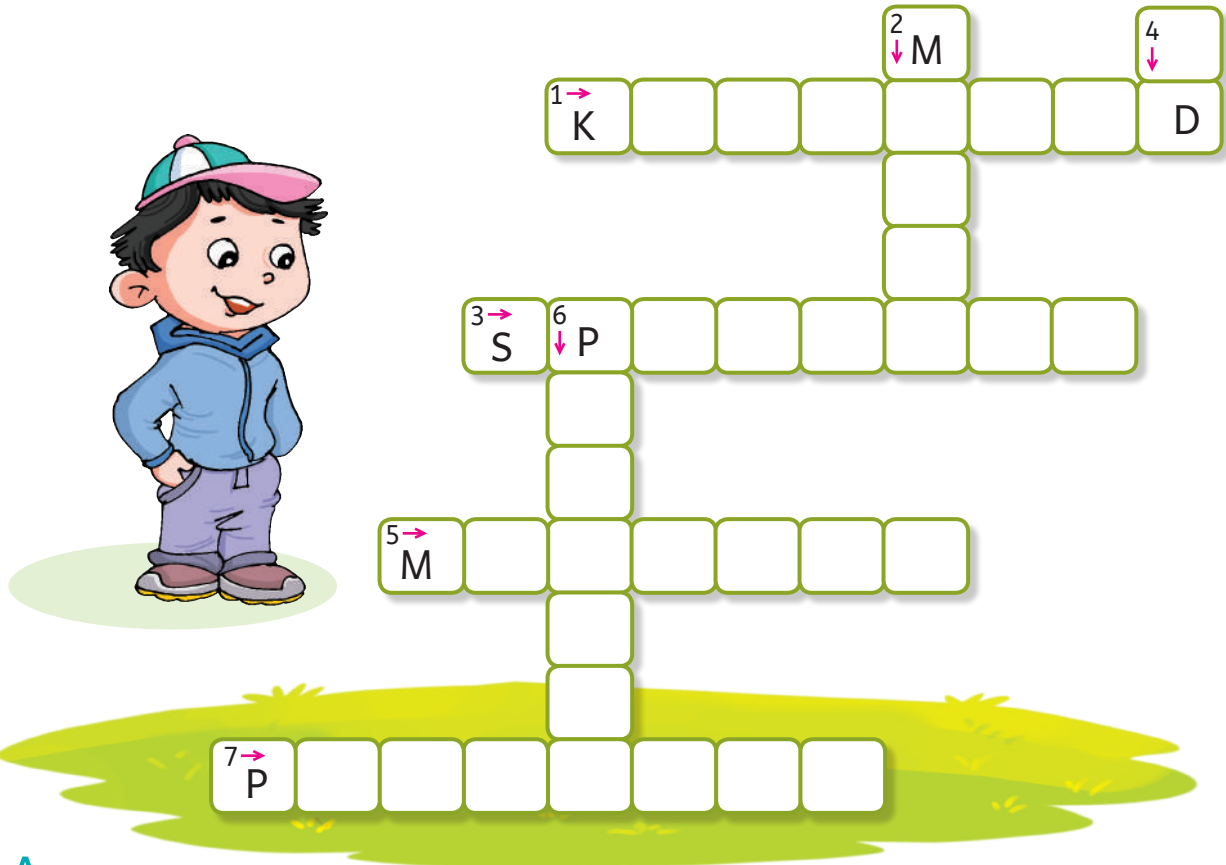


Output Device



ACTIVITY 16

Solve the crossword using the hints given.

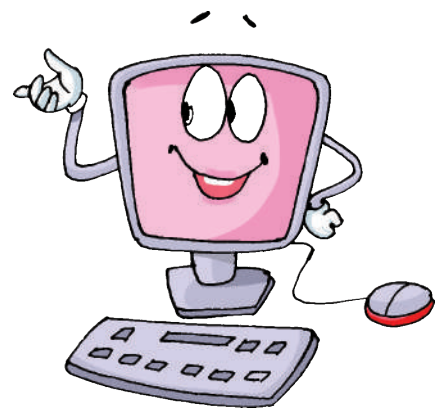


Across

1. It helps us to type words, numbers and symbols.
3. These help us to listen to music.
5. It looks like a TV screen.
7. A storage device.

Down

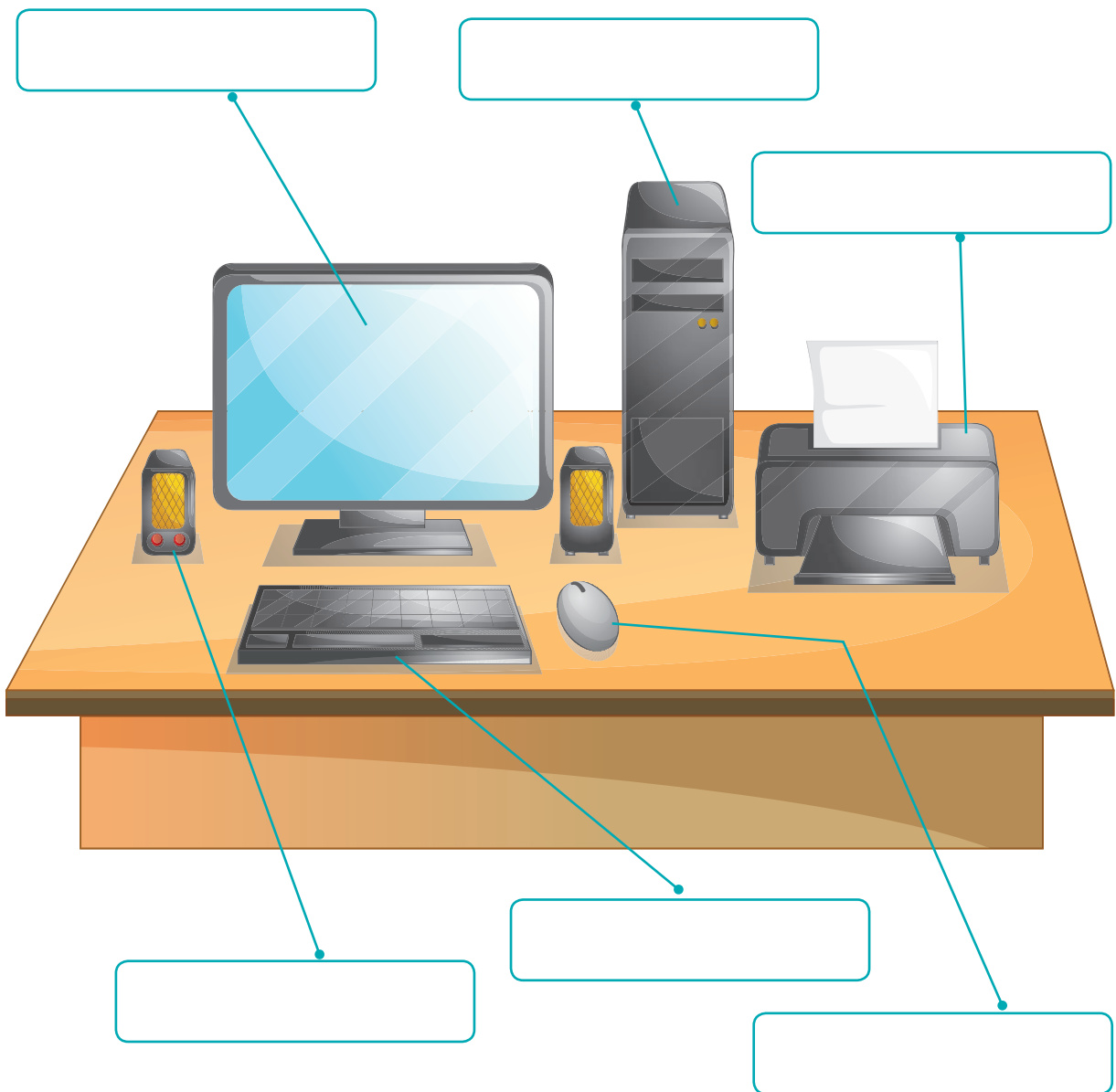
2. It helps us to draw pictures.
4. It stores more information than a floppy disk.
6. It helps us to take a printout.



ACTIVITY 17

Label the parts of a computer with the help of the words given.

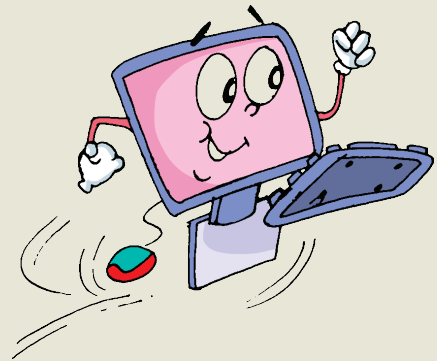
Speaker, CPU, Monitor, Mouse, Keyboard, Printer



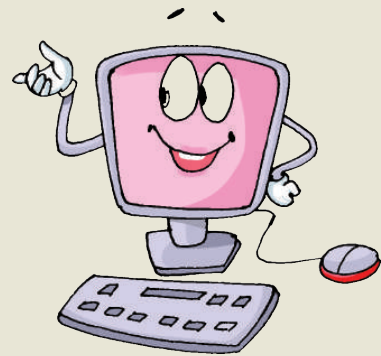
ACTIVITY 18

Guess who am I?

1. My first letter is in the word PAN.
My last letter is the first letter of RAN.
I take printouts for you.
I am a P_____ R.



2. My first letter is in the word HEN.
My last letter is the middle letter of PEN.
You can use me to listen to music.
I also have an attached Microphone
with me.
I am a H_____ E.



Now You Know

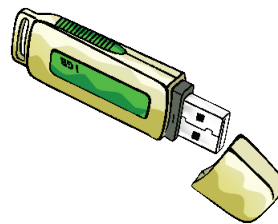
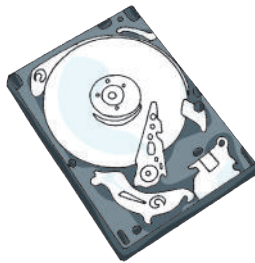
1. A computer is an electronic machine.
2. There are various devices that can be connected to a computer.
3. Input devices help us to give instructions to the computer.
4. The keyboard, mouse, joystick, microphone, web camera and scanner are input devices.
5. Central Processing Unit is the processing device in a computer.
6. Output devices help us to show the result of processing done by the computer.
7. The monitor, printer, speakers and headphones are output devices.
8. Storage devices help us to store any work we do on the computer permanently.
9. The hard disk, floppy disk, compact disc and pen drive are examples of storage devices.

A. Fill in the blanks.

microphone data electronic
storage processing

1. A computer is an machine.
2. A pen drive is a device.
3. A is the mike attached to the computer.
4. Information given to the computer is called
5. CPU stands for Central Unit.

B. Fill in the missing letters.



1. H RD DISK

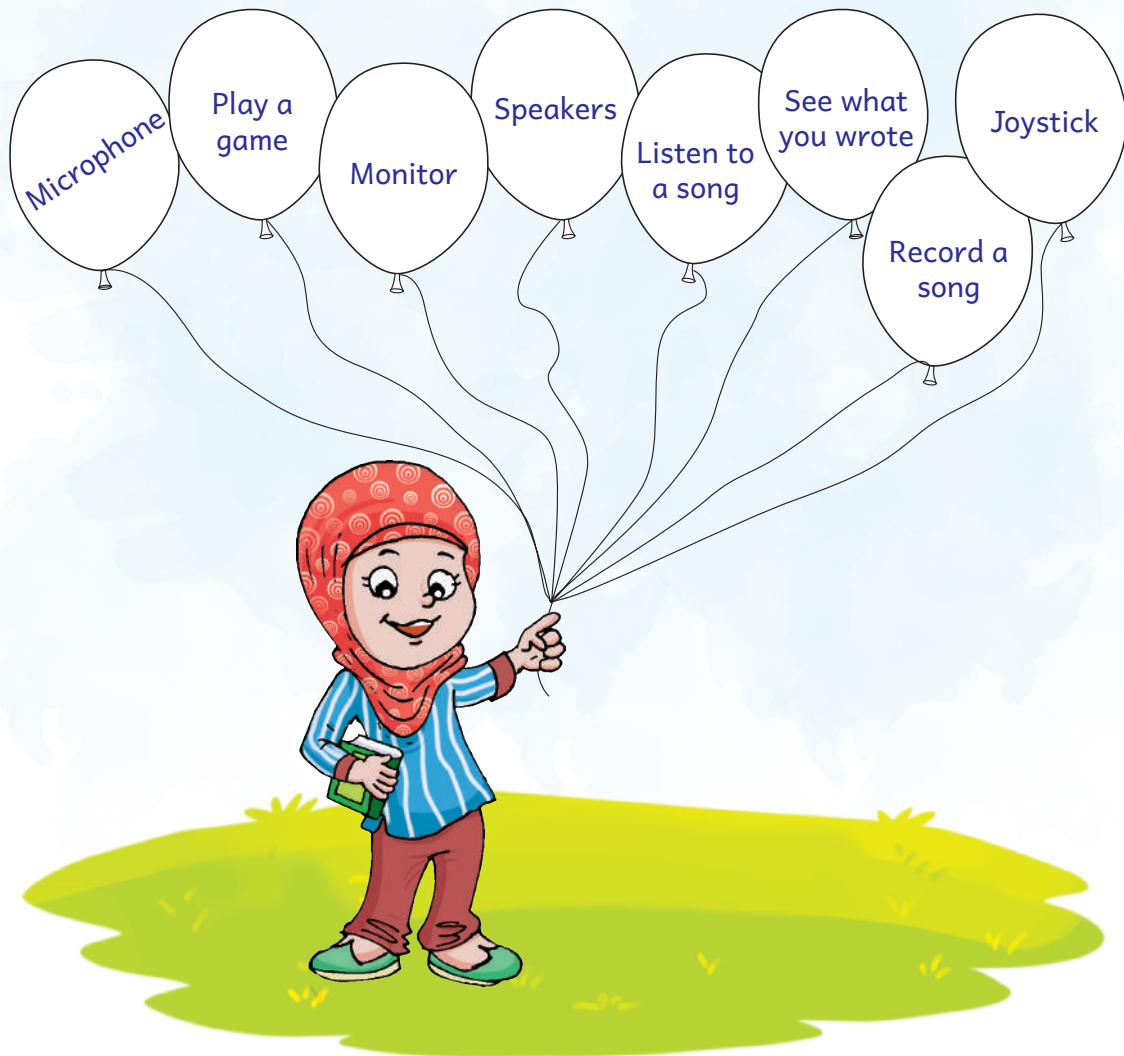
2. PEN D IVE



3. D

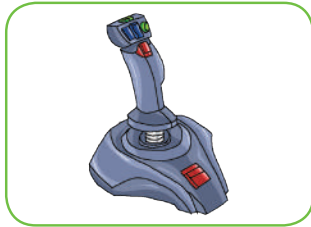
4. PRNTER

C. The clue given in each balloon has a partner. Match the pairs and color them alike.



D. Match the names with the pictures.

1.



A. Microphone

2.



B. Scanner

3.



C. Printer

4.



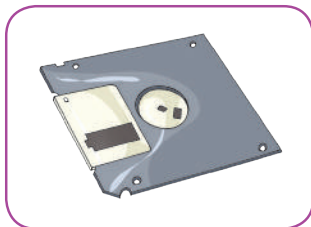
D. Floppy

5.



E. Joystick

6.



F. Headphone

E. Help Imran and Sabina find out the names of the parts of a computer.

mouse keyboard joystick microphone
keys scanner



M	O	U	S	E	D	M	J	V	U
T	T	J	K	I	E	I	O	Z	Y
N	D	T	E	T	V	C	Y	I	I
V	U	J	Y	Q	C	R	S	X	L
J	O	R	B	V	P	O	T	H	W
Z	B	E	O	K	B	P	I	V	S
A	N	H	A	E	A	H	C	L	Z
R	X	S	R	Y	F	O	K	Z	G
R	C	G	D	S	U	N	Z	T	N
N	S	C	A	N	N	E	R	Y	G



Lab Work

- In your computer lab, make a list of all the devices attached to the computer.
- Ask your teacher to show you how to insert a floppy, a CD and a USB.

INR 30



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