Information and Communication Technology
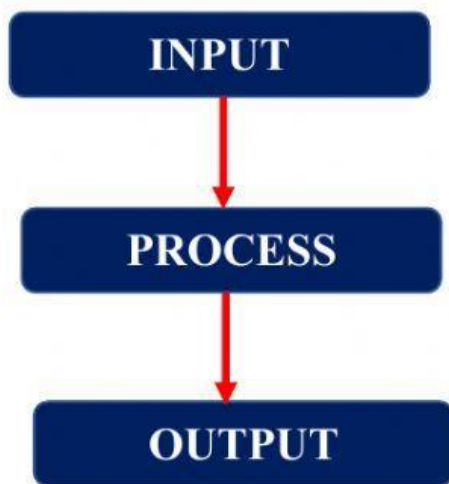
Grade 6

Lesson 1

Importance of Computers

What is a computer?

➤ A fast electronic device made to fulfil your needs.
➤ You can do complex tasks efficiently and accurately with my help.
➤ At the same time the computer doesn't get tired as you.
➤ So, the computer can perform tasks for a long time with the same speed.

Functions of a Computer

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

INPUT

PROCESS

OUTPUT

Picture 1.1. – Image of a computer

Significant Features of a Computer

1. Speed and Efficiency
2. Accuracy
3. Reliability
4. Consistency
5. Storage Capacity
6. Cost
7. Intelligence

Components of a Computer

Picture 1.2. – of a computer

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

1. Input Devices
2. Output Devices
3. Central Processing Unit
4. Main Memory
5. Storage Devices
6. Communication Devices

Input Devices

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

Mouse   Keyboard   Web camera   Scanner

Output Devices

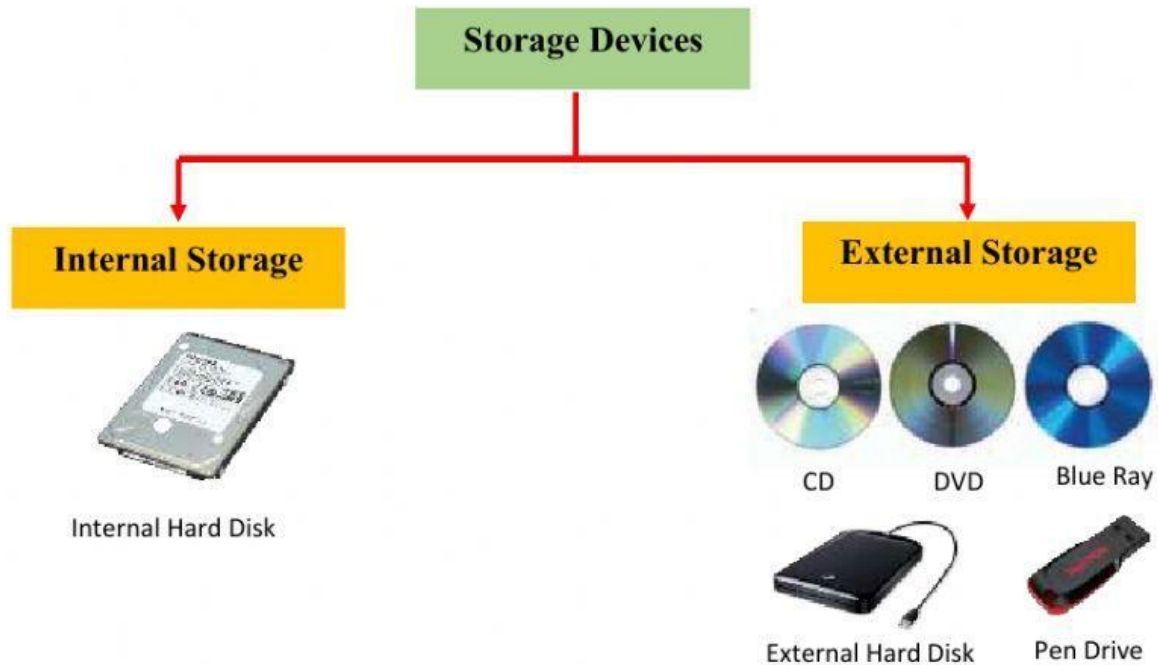The devices which are used to retrieve the data and information are called output devices.

Projector   Printer   Monitor

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Storage Devices

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

Storage Devices

Internal Storage

Internal Hard Disk

External Storage

CD   DVD   Blue Ray

External Hard Disk   Pen Drive

Communication Devices

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

NIC

Router

Applications of computers in various sectors

Schools

➢ 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.
➢ Obtain additional knowledge related to subjects by accessing the internet.

Banking

➢ Use of Automated Teller Machine (ATM) to deposit and withdraw money.
➢ Using electronic cards to settle bills when purchasing goods.
➢ Internet banking and mobile banking are latest trends in the banking system.

Hospitals

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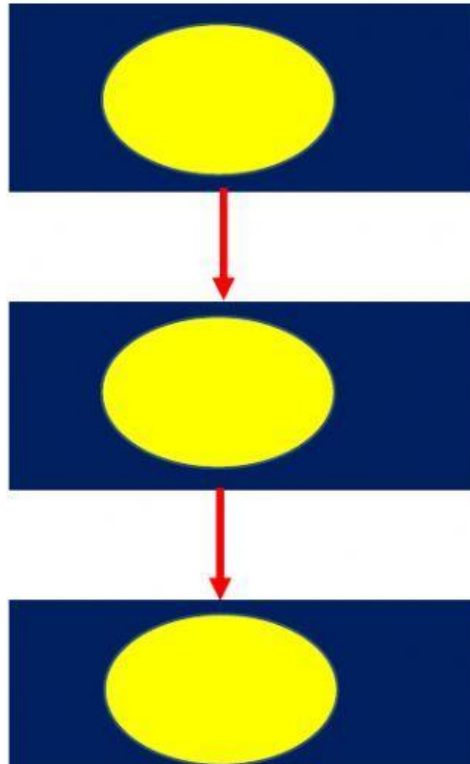
Factories

➢ Human labor 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.

Agriculture

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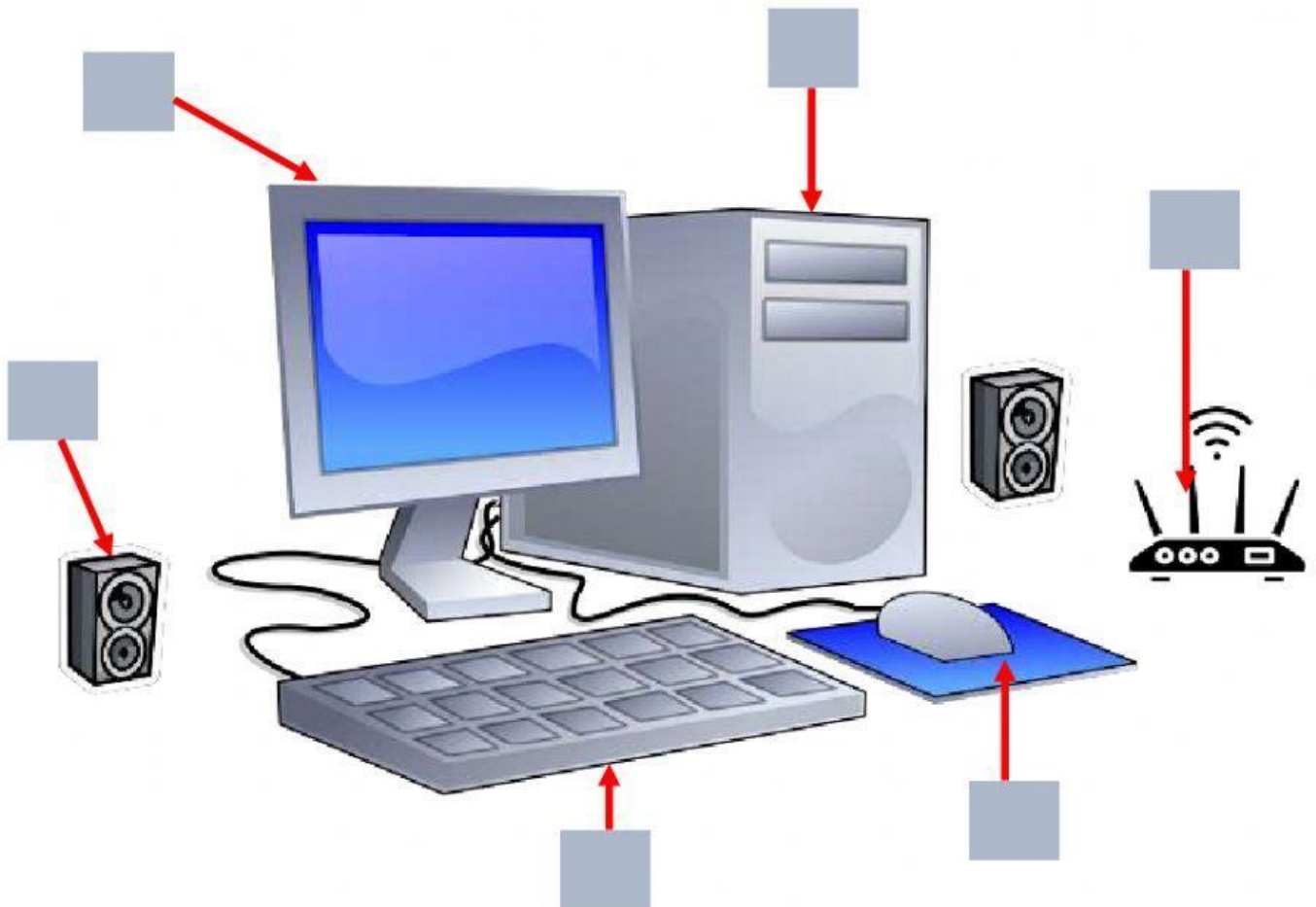
Answer all the questions.

1. Identify the basic functions of the computer and put the correct number into the boxes.

1. PROCESS
2. OUTPUT
3. INPUT

LIVEWORKSHEETS

2. Identify the parts of the below picture of the computer.
   Put the correct number in to the boxes, which is related to the correct
   name.

1. **Display**
2. **Keyboard**
3. **Mouse**
4. **Speaker**
5. **Internet Router**
6. **System Unit**

Find correct answer/answers and click on it/them.

3. Find **only** Input devices

      I.   Mouse
      II.   Printer
      III.   Web Camera
      IV.   Speakers

4. Find **only** Output devices

      I.   Mouse
      II.   Printer
      III.   Computer Monitor/ Display
      IV.   Speakers

5. Find **only** Storage devices

      I.   Modem
      II.   CD
      III.   Pen Drive
      IV.   Blue Ray

6. Find **only** Communication devices

      I.   Router
      II.   Network Interface Card- NIC
      III.   Modem
      IV.   Blue Ray

7. Which is **not** an other name for Computer Main Memory?

      I.   Random Access Memory - RAM
      II.   Read Only Memory - ROM
      III.   Primary Memory

8. A computer Software is,

    I.   We can touch them when using the computer.
    II.   A set of programmes designed to execute certain tasks by using a computer.
    III. The basic parts of the computer.

9. Which is **not** a usage of the computers in the school systems.

    I.   Obtain additional knowledge related to the subjects.
    II.   Use of Automated Teller Machines (ATM)
    III. Use instead of blackboards and books in the learning process.

10. Which is an application of the computer in hospitals.

    I.   Internet Banking
    II.   Using robotic technology
    III. Using digital thermometer