Worksheet – 4   Subject: - Computer   Class: - IV   Teacher: - Mrs. Suudha Sharma

Name: _____   Class & Sec: _____   Roll No. _____   Date: 30.04.2020
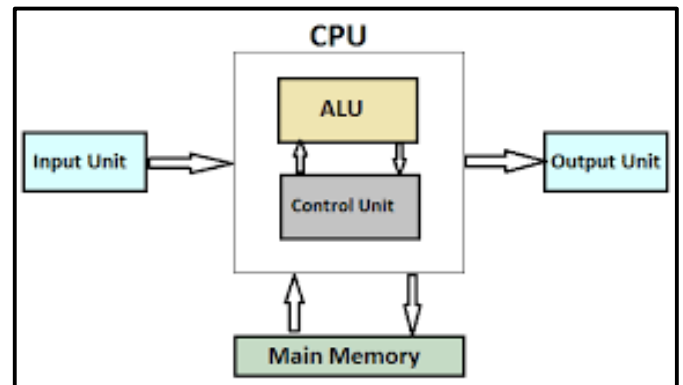
Lesson 1: Knowing about a Computer

Earlier we have discussed about the various Input Devices. Now, let's learn what are the various Processing Devices and Output Devices.

PROCESSING DEVICES

1. The CPU is a chip inside the CPU cabinet, mounted onto the motherboard along with the other components.
2. The **Central Processing Unit (CPU)** is a processing device which does all the calculations, comparisons and decision making for a computer.
3. Motherboard is the main circuit board that contains the CPU. All the other input/output devices are connected to the motherboard.

CPU further consists of the following two components:

1. **Arithmetic and Logic Unit (ALU):** The ALU does all the calculations, comparisons and decision making for a computer in the CPU.
2. **Control Unit (CU):** The CU control flow of information in the CPU. CU is like a traffic controller because it sends signals to the ALU to perform required operations.

OUTPUT DEVICES

An output device in a computer is used to show results. The common output devices are monitor, printer and speakers.

Monitor	Now-a-days **Light Emitting Diode (LED)** monitors are available in various sizes.	
Speakers	It allows you to hear the sound coming from your computer. These are available in various size and qualities.	
Headphones &Earphones	These allow you to get the sound output in your ears only. Earphones are smaller sized headphones.	Earphones Headphones
Printers	DOT MATRIX PRINTER: these use a black ribbon to print. Characters are formed by the combination of dots. Print quality is not very good.	Ribbon

INKJET PRINTER: These use liquid ink (cartridge) to print. These are very economical and hence popular.

Cartridge

LASER PRINTER: These use lasers light and a dry powder called toner to print. They provide the best print quality.

Laser printer with Toner

MEMORY OF COMPUTER

The memory of a computer is made up of 'chips'. The main working memory of a computer is called the **Random Access Memory (RAM).** It holds data and calculates results while you are working on a computer. It is a temporary memory and the contents get erased when the computer is switched off.

HARDWARE AND SOFTWARE

The computer is a combination of hardware and software. The hardware is like the body of a computer and the software is like its intelligence.

HARDWARE	SOFTWARE
Hardware is that part of a computer system which you can see or touch. Some examples are - Keyboard - CPU - Mouse - Speakers	Software is a program or a set of programs which tells a computer what to do. Some examples are - Paint program - MS Word program - Games (which you play on the computer)

LATEST TRENDS!

Taiwan based Genius company has launched a new 2- in 1 device, called Cam Mouse. It is an innovative mouse with a 2 Mega Pixel camera with the facilities of instant photo uploading. Simply slide open the lens cover and snap the picture.

Now, answer the following questions...
Q1. Answer the following:

1. Draw the block diagram of CPU.

2. Which is more convenient to work with, a mouse or a touchscreen?

3. Which component of a processing device acts as a traffic controller?

4. Is the Paint Software an example of a hardware or a software? Give reason.

5. Write the full form of the following:

1)	CPU	3)	CU	5)	ALU
2)	RAM	4)	LED	6)	LCD

Q2. Write (T) for True and (F) for False against the statements.
1. ALU does all the calculations, comparisons and decision making. (   )
2. CU controls the flow of information.   (   )
3. Laser printers use a dry powder called 'Toner' to print.   (   )
4. Headphones are the smaller sized earphones.   (   )

Q3. Fill in the blanks:
1. The _____ is the processing device which does all the calculations, comparisons and decision making in a computer.
2. The _____ and _____ are components of a CPU.
3. The _____ printers use a black ribbon to print.
4. The_____ is a chip inside the CPU cabinet.
5. The _____is the main circuit board that contains the CPU.

Q4. Solve the Crossword Puzzle:

Across:
   1.   The final result what we get after processing of data
   2.   Physical components of a computer
   3.   Type of ink used in a Laser Printer

Down:
   4.   Programs used in a computer
   5.   Actions taken on data to charge it to Information

HOMEWORK
- *Paste or draw 5 Input and 5 Output devices.*
- *Learn all 4 worksheets related to chapter 1 for class test in next class.*

Answers

Q1. Answer the following:

1.

2. A touchscreen because when we touch the graphical icons to execute the commands associated with them.
3. CU is like a traffic controller because it sends signals to the ALU to perform required operations.
4. Paint Software is an example of software because we can't touch it.
5. Full Forms:

CPU: Central Processing Unit	CU: Control Unit	ALU: Arithmetic Logic Unit
RAM: Random Access Memory	LED: Light Emitting Diode	LCD: Liquid Crystal Display

Q2. Write (T) for True and (F) for False against the statements.
1. T
2. T
3. T
4. F

Q3. Fill in the blanks...
1. ALU
2. ALU and CU
3. Dot Matrix
4. CPU
5. Motherboard

Q4. Solve the Crossword Puzzle: