Class Room Activity

ACTIVITY 1: **Classroom discussions:**

- Understand the concept of Input, Process and Output with the help of human body parts.
- Hardware is the body of the computer system and Software is the Soul.

ACTIVITY 2: **At home with the help of your mother, prepare Popcorns in the microwave/cooker and understand the concept of Input, Process and Output.**

ACTIVITY 3: **Visit your school computer lab and make a list of application softwares that you use in your school computer lab.**

Assessment Sheet

A. Tick (ü) the correct option for the following statements.

1. Data that is provided by the user.

a) ◯ Output   b) ◯ Process   c) ✔ Input

2. Result displayed on the monitor is an example of this.

a) ✔ Output   b) ◯ Process   c) ◯ Input

3. The work done by the CPU on the given data.

a) ◯ Storage   b) ◯ Input   c) ✔ Process

4. The device that stores your data permanently.

a) ◯ Keyboard   b) ◯ Printer   c) ✔ Hard Disk Drive

5. This part of CPU performs all the mathematical calculations.

a) ✔ ALU   b) ◯ Control Unit   c) ◯ Memory Unit

6. It is not visible but it controls our computer system.

a) ◯ RAM   b) ✔ Software   c) ◯ Process

7. This is essential for every computer system.

a) ◯ Mouse   b) ◯ Speakers   c) ✔ Operating System

B. Fill in the blanks.

Storage, Hardware, Application, IPO, System, Software

1. A computer works by following the ____**IPO**____ cycle.
2. Computer parts are classified into ____**Hardware**____ and ____**Software**____
3. MS Word and Tux paint are examples of ____**Application**____ software.
4. MS Windows and Linux are examples of ____**System**____ software.
5. DVD and Pen drive are examples of ____**Storage**____ devices.

C. Give one word answer for the following statements.

Keyboard, Hard Copy, Software, Hardware, Control Unit

1. The computer parts that you can touch and they are solid or hard. ____**Hardware**____

2. Name the part of the CPU that sends the signals to the printer to give a printed copy. ____**Control Unit**____

3. Name the part of computer used to send the data to the CPU. ____**Keyboard**____

4. The soul of our computer system. ____**Software**____

5. The output printed on paper using printer. ____**Hard Copy**____

D. Select the correct full form for the following abbreviations.

1. **CPU**   ◯ Control Program Unit   ◯ Central Program Unit

   ✓ Central Processing Unit   ◯ Common Processing Unit

2. **ALU**   ◯ All Language Unit   ✓ Arithmetic and Logical Unit

3. **MU**   ✓ Memory Unit   ◯ Main Unit   ◯ Monitor Unit

4. **CU**   ◯ Common Unit   ✓ Control Unit   ◯ Computer Unit

E. Following are some jobs done by the computer. Identify them as arithmetic operations or logical operations and tick (ü) accordingly.

	Arithmetic	Logical
1. To find out the names of the students above the age of 12 years.	◯	✓
2. To calculate the total fees paid by the students during the year.	✓	◯
3. To calculate the total and percentage of the five subjects marks for a student.	✓	◯
4. To give the grades on the basis of the total marks of a student.	◯	✓

5. To calculate the electricity bill.

6. To find out how many students in the school did not pay their school fee.

F. Answer the following questions:

1. What do you understand by Input? Name any three input devices.

   Input means data that is provided by the user. The input devices are Keyboard, Mouse and Scanner.

2. What is Processing and which part of computer carries out all the processing work?

   The work done by the CPU on the given data or input is called Processing. CPU is the computer brain carries out all the processing work.

3. Define Output and name any three output devices.

   Output means result or what we get from processing by the CPU. Commonly used out devices are Monitor, Printer and Speakers.

4. Give any two examples from your day to day life to explain input-process-output.

   Example 1: Making Maggie 2-minutes noodles.
   Example 2: Making a cup of coffee.

5. What do you mean by hardware?

   Hardware refers to the physical parts of a computer that we can touch and feel. Examples of hardware are keyboard, monitor, CPU, printer etc.

6. What is software? Name two types of software essential for the computer system.

   Software are computer programs that are installed in the computer for different applications. The two types of software are : System Software and Application Software.

7. Name any three storage devices.

   Hard Disk Drive   Pen Drive   CD/DVD

Computer in Everyday Life

1 Following are some example of IPO cycle in our daily life. Write your observation in the table below. (One has been done for you.)

Name of the Machine	Input	Process	Output
Washing Machine	Dirty Clothes, Washing powder, Water	Washing and Rinsing	Clean Clothes
Juicer	Oranges	Switch On the Juicer and put Oranges into it.	A glass of fresh orange juice.
Coffee Machine	Coffee Power, Sugar, Milk and Water	Switch ON the machine and select the required option.	A cup of Hot Coffee.
Microwave	Normal bread	Switch On and set the temperature	Toasted Bread
A T M	Insert ATM Card. Enter the Pin and cash amount.	ATM Machine checks the PIN number	ATM Machine gives you the required amount.

2 Following are some real life example of IPO cycle. Fill the blanks with the words Input, Process or Output after each action.

a) **Calculator:** We type a number (input) and then add operation signs (process) and we get the result after adding = sign (output)

b) **Lock and key:** We first insert the key (___Input___), then turn the key (___Process___) and finally the lock is opened (___Output___)

c) **Atm:** We insert our atm card (___Input___) and it checks our pin number (___Input___). If it matches with some it further continues. We write the amount (___Input___), it automatically counts the money (___Process___) and gives us the amount we require (___Output___).