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Class: Form 1 Arts 10

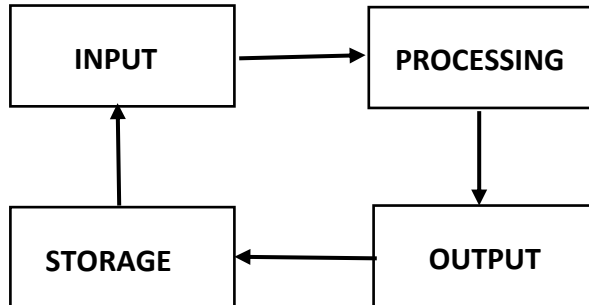
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Assignment

1. Draw the information processing cycle. Indicate the stages within the cycle.
2. Explain analogue computers.
3. list five examples of hybrid computers.

SOLUTION

1. the information processing cycle



2. **analogue computer** is a type of computer that uses the continuous variation aspect of physical phenomena such as electrical, mechanical, or hydraulic quantities (analog signals) to model the problem being solved. In other words, analogue computers read data input in a continuous format. They are becoming more obsolete although they remained in use in some specific applications, such as aircraft flight simulators. An example of an analogue computer is a mechanical watch where the continuous and periodic rotation of interlinked gears drives the seconds, minutes and hours needles in the clock. A thermometer is also another simple analog computer. As the temperature varies, the mercury moves correspondingly.

3. Five examples of hybrid computers include:

- i. fuel vending machine (fuel pump) at a gas station. measures the amount of fuel via analogue technology and displays the information regarding cost in digital form. Since it uses both analogue and digital signals, a fuel vending machine is a significant example of hybrid computers.
- ii. Electrocardiogram or ECG machine is designed to measure heart activity. It makes use of 12-13 sensors that pick the body signals and translate them to the digital data
- iii. Ultrasound Machine
- iv. Weather system computation devices
- v. ATM machine