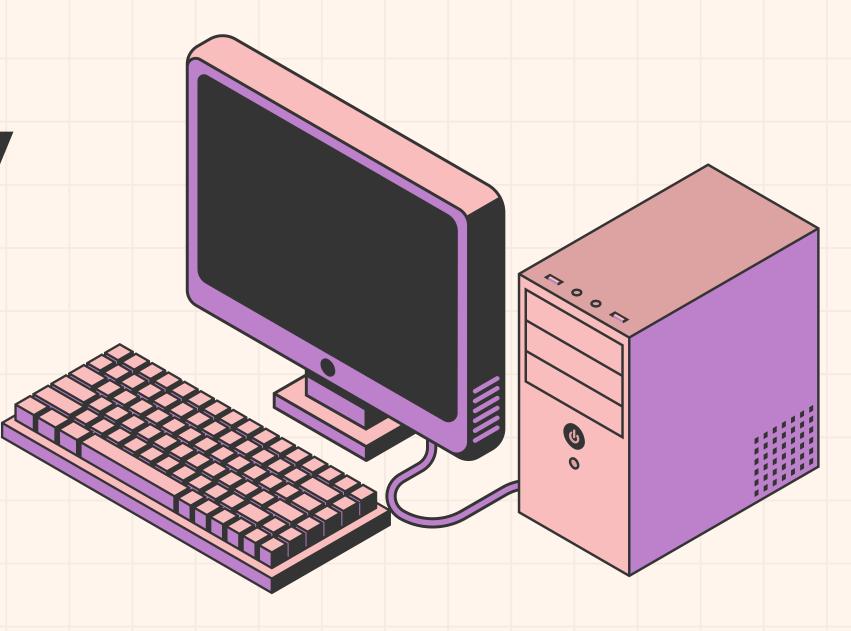


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TECHNOLOGY AND INFORMATION SYSTEM



Group 1: Introduction to Cmputer System and Hardware

what is a computer system?

A combination of hardware and software components working together to perform specific tasks, encompassing devices like the CPU, Memory, Input/Output, devices and operating system.

Difference between hardware and software

HARDWARE vs SOFTWARE

physicial elements of a computer or electronic system

has four main categories: input devices, output devices, secondary storage devices and internal components

tangible

developed using electronic and other materials

when damaged, it can be replaced with a new component

starts functioning once the software is loaded into the system

a collection of instructions that tell the computer how to perform a task

mainly divided into system software and application software

intangible

developed by writing instruction using a programming language

when damaged, it can be reinstall using a backup copy

should be **installed** into the computer **to function**



EXECUTION OF SOFTWARE

DATA STORAGE

INPUT AND
OUTPUT
OPERATIONS:

Importance of hardware in computer functionality

PERFOMANCE

CONNECTIVITY

Types of computer hardware

keyboard



scanner



microphone



mouse



Input Devices

webcam



monitor

printer

speaker







Output Devices

projector



hard disk drive



solid state drive



USB Flash drive



Storage Devices



external hard drive

central processing unit (CPU) Graphic processing unti (GPU)



Motherbord



Processing Devices

Memory RAM

Random Access memory RAM



Real life examples and function of computer system and hardware

Personal Computer

The CPU processes commands from software applications. RAM temporarily stores data for quick access, while the hard drive/SSD holds long-term data like documents, photos, and videos. Graphics Card (GPU) renders visuals for the monitor. The keyboard and mouse act as input devices to control the system.

Smartphone

The mobile processor (CPU) runs apps and manages device functions. The RAM enables fast switching between apps, and the storage (usually an SSD) holds apps, photos, and other data. The touchscreen is the primary input method, while the camera and GPU help with image capture and rendering

Medical Equipment (MRI, X-Ray Machines)

The central processing unit (CPU) controls the data flow and processing of images. Sensors collect data from the body, and displays show the results. The storage holds patient data and scanned images.

Quiz timeee

1.What are the main components of a computer system

2. Give an example of output device