## FUNDAMENTALS OF COMPUTER SYSTEMS, Assignment 1

Key distinction between computer hardware and sophware comes down to their nature and roles of the computer system.

Hardware refers to the physical parts of a computer that you can see, touch etc. They are the components that make the computer run and process data examples,"

Central Processing Unit (cpv)- The brain of computer responsible for congruing out

Random Access Memory (RAM) - Peroperary memory that holds the data the operary using.

Storage devices (HDD/SSD) - Hard drives where data is stored tong-term.

Advancement ui hardware

- Improvement like faster processors or more efficient GPUs enhancement

performance enabling smoother multitasking

- Upgrading to SDDs from traditional HDDs dramatically speeds up data access

Software consists of the instructions and programs that tell the hardware what to do. i.e the code and algorithms behind the tasks a computer performs.

Examples;

Operating systems (Os) - The core software that manages all hardware resources and allows other software to run.

System Software - The underlying software that supports the basic functions of the computer such as BIOS.

Advancement in Software.

- As sophware becomes more expicient, it can do more with less hardware power.

- OS update also improves system security, add new features and enhance compatibility with new hardware.

How both hardware and sophware work together;

They are both hinked, working together to perform tasks. The operations memory and storage drive all interact based on the histmetions

Provided by the septicare.

Role of OS-Interacts between hardware and user-level septicare allocating resources like oper power and memory to each task