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## Open-Ended Questions.

- 1- System software and its 4 types.
- System software is a program designed to run a computer hardware and munage its resources such as memory, processors and devices.

4 types of system programs:

- Operating systems (DS) manage computer resources, schedule tasks, and provide yser interfaces.
- Utilly Programs Help maintain and optimize System performance like antivirus.
- Device drivers facilitate communication between the os and hardware components.
- Firmware Embedded Software that controls hardware functions.



- 2. Operating Systems (DS) is a collection of program that handle technical tasks such as memory management, process coordination, and system performance monitoring.
  - 3 main cutzgories of os are
  - Embedded OS Designed for specialized devices like smartphones and smartwatches
  - Stand-alone as -used on personal computers, including windows, mac as, lines
  - Network os Manages linked computers and servers, such as windows server and UNIX.
  - 3. Mobile OS is an embedded system optimized for portable devices with fouch interfaces and wireless connectivity. Examples:
    - Android open source of with extensive customization options.
    - IOS Apple's specific os known for Schuity and ecosystem integration.
    - Harmony OS Huanni's alternative designed for cross durices winnertivity.



- 4. Desktop as is designed for personal computers and laptops. comparison of major as:
  - windows most widely used.
  - Mac os wer friendly and offinized.
  - Linux open source and customizable.
  - Chrome os cloud based and lightweight.
- 5. VHILTEL are specialized programs that optimize computing. Essential utilities include:
  - Troubleshooting programs Diagnose and fix system issues.
  - Antivirus software protects against malware and security thelas.
    - Back up programs Ensure data recovery in cure of system failure.
  - File compression programs Reduces file Size for efficient storage.

