

Computer software

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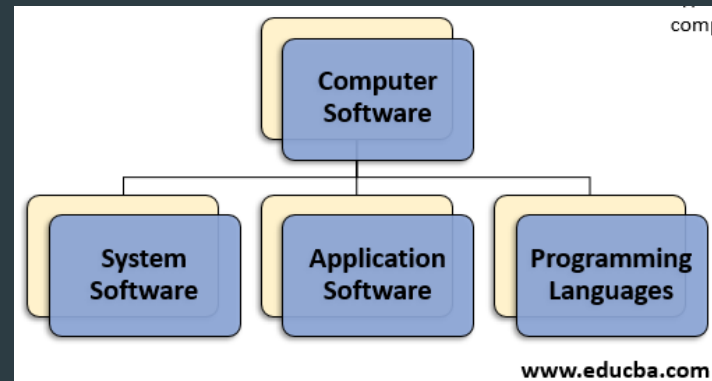
Problem 4

Objectives :

- 1-Define computer software and list the tow major components of system software ?
- 2-Discuss operating system and list of five basic functions of an operating system ?
- 3-Why computer needs an operating system?
- 4-List three categories of operating system?
- 5-List types of user interface?
- 6-List essential system utilities ?
- 7-Explain what happened when turn on the computer?

1-Define computer software and list the two major components of system software?

Software, instructions that tell a computer what to do. Software comprises the entire set of programs, procedures, and routines associated with the operation of a computer system. The term was coined to differentiate these instructions from hardware—i.e., the physical components of a computer system. A set of instructions that directs a computer's hardware to perform a task is called a program, or software program



- System software has two major components

- (1) the operating system (OS)

The OS coordinates the various functions of the computer's hardware and provides support for running application software



- (2) system utilities.

provide such features as backup, defragmenting, and file compression.

2-Discuss operating system and list of five basic functions of an operating system ?

An operating system acts as an interface between the user and the computer's hardware.

- Its five basic functions are

- starting the computer,
- managing applications
- managing memory,
- Coordinating tasks
- providing a means of communicating with the user.



3-Why computer needs an operating system?

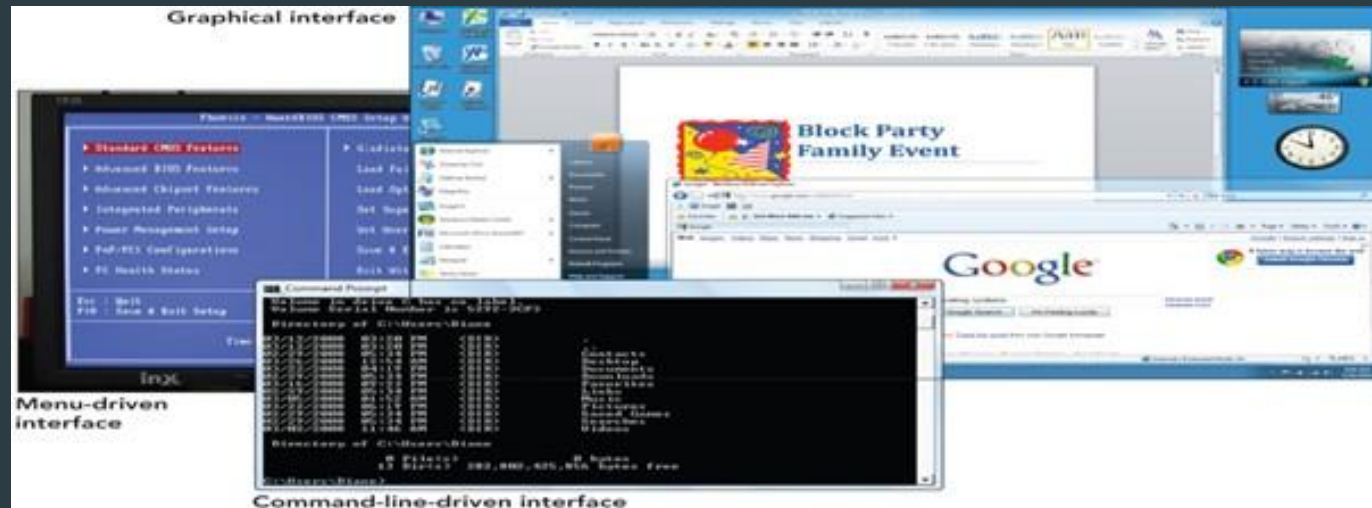
- . A computer needs an operating system to coordinate the interaction of hardware components with each other as well as with application software.

4-List three categories of operating system?

- 1) Stand-alone operating systems__ used by single users.
- 2) Server operating systems__ used in client/ server network environments.
- 3) Embedded operating systems __found on ROM chips in portable or dedicated devices .

5-List types of user interface?

- The three major types of user interfaces are
 - graphical user interfaces (GUIs)
 - menu-driven user interfaces
 - command-line user interfaces



6-List essential system utilities ?

- Backup software
- antivirus software,
- a file manager
- search tools
- file compression utilities
- disk scanning programs
- disk defragmentation programs
- access utilities for those with special needs

7-Explain what happened when turn on the computer?

- When you start or restart a computer, it reloads the operating system into the computer's memory. A computer goes through six steps at start-up:

1-loading the BIOS

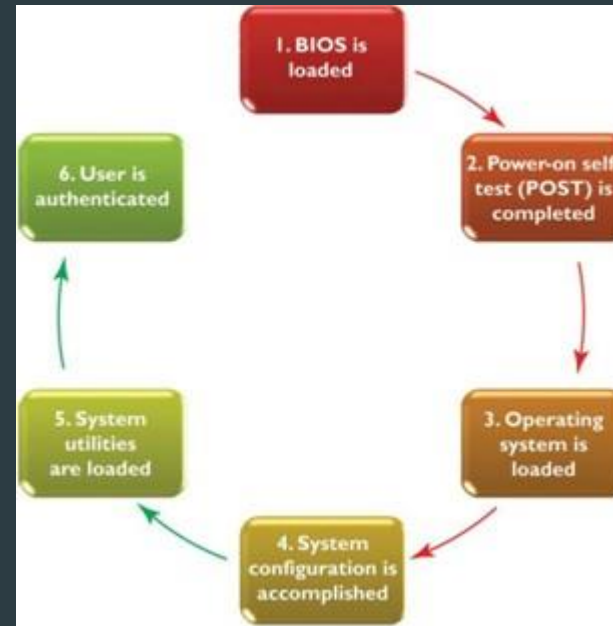
2-performing the power-on selftest

3-loading the OS

4-configuring the system

5-loading system utilities

6-authenticating users



Thank you

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