[9.1.]

[9]

An Operating System is a Software System that manages hardware and Provides an interface for users to interact with the computer.

[9.1.]

[6]

A process is a frogram that is currently being run by the computer, and thread is a lightweight version of a process that executes a portion of the process's code.

[9.1.]

[c]

An operating System does:

Processes: Manages the activities of multiple Processes.

Memory: Ensures all Programs and Processes have enough memory

Files: Handles dota, making Sure users can Store fries.

Devices: Controls input devices like printers.

Security: Protects data and Programs from hackers

[9.1.] [d]

- the Kernel 15 an essential Part of the as that manages memory, the cru and other resources, acting as an intermediary between Software and hardware.

next godes at shoulden A

[0.2.]

[a] 57

Hemoxy management thvolves allocating memory for processes. Types include: may at 22 ortho Vicamon

Contiguous: where memory is allocated in

Paged: The memory is split into Small, equal pasts called pages.

Segmented: Memory is split into unequal poots

[0.2.]

Security: Frotects data and Programs from hallow

[P]

4

A deadlock is when two or more Processes connot continue because they are waiting on each other for resources one way to handle deadlocks in the Banker's algo, which checks resource availability before assigning them.

[9.2.]

[0] [0]

> Logical address is the address created during program execution, and physical address is the real memory address in RAM