

Assignment 1

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Fill the Blanks

- ① System s/w
- ② Multitasking OS
- ③ System call
- ④ Process control Block
- ⑤ OS Management

Short q's

- ① It allows us to create a system as large and complex as an OS system by partitioning it into smaller pieces.

Some services :-

- ① Process Management
- ② Main Memory "
- ③ File "
- ④ I/O System "

- ⑤ Net Secondary management
- ⑥ Networking
- ⑦ Protection System
- ⑧ Command. Interpreter System.

- ② VM is a computer resource that runs s/w instead of a physical computer to run programs and deploy apps.

③ A System Call is the ~~programatic~~ programatic way in which a computer program requests a service from the kernel of the OS.

④ There are 5 states in process life cycle

① New

④ Ready

② Running

⑤ Terminated

③ Waiting

⑤ A buffer is a memory area that stores data being transferred b/w 2 devices / between a device and an application.

types of buffering

① Single Buffer

② Block Oriented device

③ Stream oriented device

④ Double Buffer

① Block oriented

② Stream Oriented

③ Circular buffer

Long Q's

① A thread is a basic unit of CPU utilization. A thread, sometimes called as light weight process whereas a process is heavyweight process.

→ A process is a program that performs a ^{single} ~~single~~ thread of execution.

Multithreading

→ Allows different parts of a single prog. to run concurrently.

→ Some OS provide a ~~ther~~ User level and kernel level threads facility.

→ 3 common ways to establish this relationship are.

① ~~One~~ Many to One model.

→ maps many user-level threads to one kernel thread.

② One to One model

→ Maps each user thread to a kernel thread.

③ Many to Many Model

→ Maps many user level threads to a smaller (or) equal no. of kernel threads.