11 Lecture - CS101

Important Subjective

- What is an operating system? Answer: An operating system is a software program that manages computer hardware and software resources and provides services to computer programs.
- What is a process in the context of an operating system? Answer: A process is a program in execution, which includes the current values of the program counter, registers, and variables.
- 3. What is a file system in the context of an operating system? Answer: A file system is a way of organizing and storing files on a computer. It includes directories, files, and metadata.
- What is a shell in the context of an operating system? Answer: A shell is a program that provides a command-line interface for interacting with the operating system.
- 5. What is virtual memory in the context of an operating system? Answer: Virtual memory is a technique that allows a computer to use more memory than it physically has by using the hard drive as a backup storage for unused memory.
- 6. What is a device driver in the context of an operating system? Answer: A device driver is a program that allows the operating system to communicate with hardware devices, such as printers and scanners.
- 7. What is a context switch in the context of an operating system? Answer: A context switch is a process of saving the state of the current process and restoring the state of another process to allow multiple processes to run concurrently.
- What is scheduling in the context of an operating system? Answer: Scheduling is the process of determining which process will run on the CPU at any given time.

 What is a system call in the context of an operating system? Answer: A system call is a request made by a user program to the operating system to perform a specific task, such as reading or writing a file.

10. What is a kernel in the context of an operating system?

Answer: The kernel is the core component of the operating system that manages system resources and provides services to applications.