

What are the various services provided by Operating system ?

Some of the most common services provided by an operating system are:

1. Process management: An OS manages the creation, scheduling, and termination of processes, which are the running instances of a program.
2. Memory management: An OS manages the allocation and deallocation of memory to processes and ensures that each process has the required memory resources.
3. File system management: An OS manages the creation, deletion, and modification of files and directories on disk storage.
4. Device management: An OS manages the interaction between hardware devices and software applications, providing device drivers and managing input/output operations.
5. Security: An OS provides security features such as access control, authentication, and encryption to protect the system and user data.
6. Network management: An OS provides network services such as TCP/IP protocol stack, routing, and network interface management.
7. User interface: An OS provides a user interface that allows users to interact with the system, including graphical user interfaces (GUIs), command-line interfaces (CLIs), and web interfaces.
8. Application support: An OS provides application programming interfaces (APIs) and libraries that enable software developers to create applications that can run on the OS.

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14. Optimal page replacement algorithm
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53. Program to implement while loop in Linux
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56. For loop without in keyword in Linux
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58. Multiple Processor Scheduling
59. What do you mean by Virtual Memory? Write down its advantages?
60. Compare Paging and Segmentation?
61. What is Process Scheduling, CPU Scheduling, Disk Scheduling? Explain Short, Medium and Long term Scheduler?
62. Explain concept of a process with its components ?
63. Explain the following in brief Contiguous and Linked list allocation for implementing file system?
64. Explain various Disk scheduling algorithms with Illustrations ?
65. Define process and thread. What is PCB ? Explain its various entries with their usefulness ?
66. Discuss advantages and disadvantages of the Buffer cache ?
67. Explain different types of OS with examples of each ?
68. What is an Operating System? Write down its desirable characteristics ?
69. Define a deadlock ? Write down the conditions responsible for deadlock? How can we recover from deadlock ?
70. What do you mean by PCB? Where is it used? What are its contents? Explain.
71. What is Binary and Counting semaphores ?
72. What is File? What are the different File attribute and operations?
73. What are System call? Explain briefly about various types of system call provided by an Operating System?
74. Describe necessary conditions for deadlocks situation to arise.

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75. What are points to be consider in file system design? Explain linked list allocation in detail?
76. Write a Semaphore solution for dining Philosopher's problem?
77. Consider the following page reference string:1,2,3,4,5,3,4,1,2,7,8,7,8,9,7,8,9,5,4,5.
How many page faults would occur for the following replacement algorithm, assuming four frames:
 - a) FIFO
 - b) LRU
78. Explain CPU schedulers in operating system?
79. Write the different state of a process with the help of Process state diagram?
80. What is Mutex in operating system?
81. Explain Network operating system?
82. What do you mean by paging in operating system ?