OS Content Discussed Day-1

1. What is OS?

2. How is it different from other application software?

3. Why is it hardware dependent?

4. Different components of OS

5. Basic computer organization required for OS.

6. Examples of well-known OS including mobile OS, embedded system OS, Real Time OS, desktop OS, server machine OS etc.

7. How are these different from each other and why

8. Briefly discussed Functions of OS

9. Introduction to User and Kernel space and mode

10. Linux OS and its features

11. Working basics of file system of Linux

12. Commands associated with files/directories

13. other basic commands

14. What are file permissions and how to set them

15. Giving and revoking permissions using chmod for Owner, Group and Other users

Interview Questions

1. Define the types of Operating System?

2. Explain DHCP?

3. Explain DNS?

4. Explain paging?

5. Explain segmentation?

6. Explain memory management?

7. Explain the function of OS?

8. Explain a kernel? Its architecture and working?

9. Explain a shell script?

10. Explain a page fault?

11. Explain a deadlock?

12. Define the necessary conditions for deadlock?

13. Explain a semaphore?

14. Explain a mutex?

15. Difference among kernel space and user space.

16. Write in brief the ping command.

17. Explain UNIX?

18. Explain grep?

19. Explain pipe?

20. Difference among Thread & Process.

21. Explain a scheduling algorithm?

22. Explain pre-emptive and non-preemptive scheduling?

23. Define the different scheduling algorithms

24. Explain booting process?

25. Explain bias?

26. Explain the difference among static memory allocation and dynamic memory allocation?

27. UNIX commands like touch, sed, grep.

28. Explain a process and process table? Define different states of process?

29. Define the benefits of multithreaded programming?

30. Explain Thrashing?

31. Explain Belady's Anomaly?

32. Explain starvation and aging?

33. Explain a trap and trapdoor?

34. Explain a daemon?

35. Which application software's executed on OS?

36. Define daemon objects and thread objects?

37. Give commands for finding process ID.

38. How to edit, rename and move file in Linux?

39. Give 5 commands in Linux with explanation

40. Which are deadlock handling situations?