###### **1. What are Open Source softwares.**

**2. What is bash shell?**

###### **3. Syntax of any Linux command is:**

**4. Diffrence between RAM and swap memory?**

**5. Command to create soft link?**

**6. How do you change permissions and ownership under Linux?**

**7. How do you list partitions under Linux?**

**8. How do you list mount points in linux?**

**9. How to export enviornmental variables in Linux for user “devops”?**

**10. How to check RAM and swap memory size usage in Linux?**

**11. What is symbol of output redirection?**

**12. How do you redirect all the output to a file, including standard errors?**

**13. Command to find only the PID’s of vsftpd process, should only list PID and nothing else.**

**14. Write a command that will look for files with an extension “.c” and move it to /tmp.**

**15. How to make sure that sshd process starts after system starts.**

**16. How to install software with all the dependencies in Ubuntu & centos systems.**

**17. Diffrence between runlevel 3 and 5?**

**18. What is the command to find the current run level?**

**19. Write a cronjob entry to run a backup script at 08:45 PM from Wednesday to Saturday?**

**20. What is the command to find the current load average of the system?**

**21. List down the procedure to do ssh keyexchange between two systems.**

**23. Difference between type 2 and type 1 hypervisor and few example of it?**

**24. Diffrence between DNS and DHCP server?**

**25. Default ports for FTP, DNS, Telnet, HTTP & SSH?**

**26. Command to install rpm and dpkg package.**

**27. Print exit status to last executed command?**

**28. What are the commands to take input from user while executing the script, assign it to a variable and print the variable back.**

**29. What is diffrence between vagrant and virtualbox?**

**30. What is the default synced directory and adapter (interface) type for a vagrant vm?**

**31. How to find file type in linux, like normal file, directory, block file, links etc?**

**32. Describe the root account.**

**33. How to list all the interfaces and its ip address in linux ?**

**34. What are the kinds of permissions under Linux?**

**35. What is init process and its PID?**

**36. What is /etc directory used for in Linux?**

**37. Find a user root info from /etc/passwd file and display four lines after that?**

**38. Search content elephant and replace it with rhino from a file named animals.txt, inside vi editor.**

**39. What is /etc/shadow file used for in linux?**

**40. How many IP addresses are available to use from CIDR block /24 and /16?**

**41. What is first and last usable ip address for network ranges 172.16.1.0/16?**

**42. What is the purpose of /etc/hosts file?**

**43. How to restart apache service in centos and ubuntu OS?**

**44. How to shutdown linux machine with init command?**

**45. Command to copy file /tmp/logs\_backup.zip from local system to a remote server which has ipaddress 192.168.2.84 at /home/vagrant/ location?**

**46. Print all the arguments passed to the script?**

**47. Command to zip and compress directory named apache\_logs with tar and zip command.**

**48. What is the symbol of home directory?**

**49. How to check if file exist on filesystem?**

**50. Write down syntax of forloop in shell scripting?**