- 1. LIST THE CONTENTS OF A DIRECTORY AND THEIR ATTRIBUTES Is
- 2. LONG LIST THE CONTENT WITH FILE, DIRECTORY OWNERSHIP, PERMISSIONS, SIZES, ETC... Is -la
- 3. DISPLAY THE SIZE OF THE FILE IN HUMAN READABLE FORMAT Is -Ih
- 4. SHOW ALL FILES AND FOLDERS INCLUDING HIDDEN ONE Is -al
- 5. LIST DIRECTORIES RECURSIVELY Is -R
- 6. SORT THE FILES BY SIZE WITH LARGEST AT THE TOP Is -laS
- 7. SORT THE FILES BY LAST TIME MODIFIED DISPLAYING THE NEWEST FIRST. Is -halt
- 8. DISPLAY THE LOCATION OF A PROGRAM/COMMAND, WHERE IT IS INSTALLED. whereis
- 9. WHICH COMMAND IS USED TO SWITCH DIRECTORY FROM ONE TO ANOTHER cd
- 10. LIST ALL THE ENVIRONMENT VARIABLES SET FOR THE CURRENT SHELL ENVIRONMENT printenv
- 11. IF YOU NOTICE SOMETHING IN THE OUTPUT OF "ENV" COMMAND? I have seen the path and url for environmental variables.
- 12. WHICH COMMAND IS USED TO PRINT THE TEXT OR ANY VARIABLES VALUE IN THE CONSOLE/TERMINAL? Echo
- 13. PRINT THE VALUE OF THE ENV VARIABLE "PATH" ON THE CONSOLE
- 14. IS LINUX A CASE-SENSITIVE OPERATING SYSTEM? Yes Linux is Case Sensitive
- 15. IS, "Is" SAME AS "LS"? No, will get Error
- 16. DISPLAY YOUR CURRENTLY LOGGED IN USER? whoami or w
- 17. HOW DO YOU CHANGE THE CURRRENTLY LOGGED IN USER TO ANOTHER USER?

>whoami >su –u user2

- 18. WHICH COMMAND IS USED TO LEAVE A SHELL ENVIRONMENT THAT YOU ARE CURRENTLY LOGGED IN TO?
- 19. HOW DO YOU REBOOT THE SYSTEM? sudo reboot
- 20. HOW DO YOU SHUTDOWN THE SYSTEM? sudo shutdown

- 21. DISPLAY ALL THE MAJOR RUNNING PROCESSES IN THE SYSTEM? ps -aux
- 22. UNDERSTAND THE OUTPUT OF COMMAND USED IN ABOVE QUESTION OF DISPLAYING PROCESSES, EXPLAIN THE MEANING OF EACH COLUMN AND WHAT DATA IT DISPLAYS?'

>User id, Process Id, virtual memory and resident set size and start time of the process

- 23. DISPLAY THE NAME OF THE SYSTEM KERNEL? uname -r
- 24. DISPLAY THE KERNEL RELEASE NUMBER? uname -srm
- 25. DISPLAY TEH MACHINE TYPE OF THE CURRENT KERNEL? uname -m
- 26. DISPLAY THE NAME OF THE OPERATING SYSTEM THAT THE KERNEL IS RUNNING ON? - uname -o
- 27. DISPLAY ALL INFO THAT UNAME COMMAND CAN SHOW? uname -a
- 28. DISPLAY THE NAME OF DIRECTORY THAT YOU ARE CURRENTLY POINTING TO? PWD
- 29. CHANGE THE CURRENT DIRECTORY TO ANOTHER DIRECTORY THAT YOU HAVE IN YOUR SYSTEM.? cd path
- 30. GO UP ONE DIRECTORY cd filename
- 31. RETURN TO LAST DIRECTORY cd.
- 32. CHANGE THE CURRENT DIRECTORY TO HOME (LOGGED IN USER'S) DIRECTORY cd..
- 33. HOW TO CHECK ALL THE COMMAND USED FROM THE PROMPT (COMMAND HISTORY)? history
- 34. IN WHICH FILE THE HISTORY OF COMMANDS ARE STORED IN? HISTFILE
- 35. HOW MANY LINES OF HISTORY DOES THE SYSTEM KEEP AND FROM WHERE YOU CAN CHANGE IT? 500
- 36. HOW CAN YOU MODIFY BASH'S HISTORY BEHAVIOUR?
- 37. DISPLAY ALL THE COMMANDS ENTERED SO FAR, NOW, TRY TO RUN A PARTICULAR COMMAND FROM THE HISTORY LIST WITHOUT TYPING THAT COMMAND.? Using arrow keys, we can manage
- 38. WHAT ARE THE DIFFERENT TYPES OF SHELL AND WHERE ARE THEY USED AND HOW DO WE USE THEM?
- 39. WHAT IS THE DIFFERENCE BETWEEN LOGIN SHELL AND NON-LOGIN SHELL?

- 40. HOW DO WE START LOGIN SHELL AND NON-LOGIN SHELL?
- 41. WHAT HAPPENS WHEN YOU START A LOGIN SHELL (WHICH FILES ARE READ AND USED AND WHY)?
- 42. WHAT HAPPENS WHEN YOU START A NON-LOGIN SHELL (WHICH FILES ARE READ AND USED AND WHY)?
- 43. WHAT ARE SHELL CONFIGURATION FILES, WHY DO WE NEED IT?
- 44. EXPLAIN THE ORDER OF FILE USAGE FROM THE SYSTEM/USER'S HOME DIRECTORY WHEN USER LOGS IN TO THE SYSTEM.
- 45. WHAT ARE SHELL VARIABLES, LIST MAJOR SHELL VARIABLES AND WHAT DO THEY REPRESENT?
- 46. HOW WE SEE ALL OUR ENV VARIABLES?
- 47. HOW WE SEE ALL ENV VARIABLES IN ALPHABICAL ORDER?
- 48. WHAT FORMAT DOES THE ENV VAR AND ITS VALUES ARE STORED?
- 49. HOW DO YOU CREATE YOUR OWN VARIBLE?
- 50. HOW DO YOU START A NEW BASH SHELL?
- 51. DIFFERENCE BETWEEN LOCAL/SHELL VARIABLES TO GLOBAL VARIABLE
- 52. MAKING A VARIABLE ACCESSIBLE FROM OTHER THE SHELL IN THE SYSTEM.
- 53. SHOW THE REAL LIFE USE CASE OF EXPORTING A VARIABLE
- 54. CONVERT THE ABOVE SCRIPT FILE INTO A COMMAND, THE FILE SHOULD RUN WITH "MYAPPP" INSTEAD OF "MYAPP.SH"
- 55. WHAT IS GLOBBING? EXPLAIN IN DEPTH WITH EXAMPLES?
- 56. LIST ALL ENTRIES WITH EXTENSION ".SH"
- 57. LIST ALL ENTRIES WITH NUMBERS IN IT.
- 58. LIST ALL ENTRIES THAT STARTS WITH A CHARACTER AND ENDS WITH A NUMBER
- 59. LIST ALL ENTRIES THAT NAME LENGTH MORE THAN 5 CHARACTERS
- 60. WHAT IS QUOTING? AND WHY DO WE NEED IT?

- 61. WRITE FEW (MINIMUM 3) UNIQUE EXAMPLES THAT SHOWS, HOW A PARTICULAR PROBLEM IS SOLVED USING QUOTING.
- 62. HOW DO YOU FIND A PARTICULAR FILES/DIRECTORIES BASED ON A PARTICULAR SEARCH CRITERIA?
- 63. HINT: LOOK FOR COMMANDS -> LOCATE, FIND AND WHEREIS
- 64. WRITE MAJOR DIFFERENCE BETWEEN LOCATE, FIND AND WHEREIS?
- 65. HOW GLOBBING IS DIFFERENT FROM LOCATE, FIND AND WHEREIS?
- 66. EXPLAIN THE LINUX FILE SYSTEM.
- 67. EXPLAIN ABSOLUTE AND RELATIVE PATHS
- 68. WHAT ARE THE DIFFERENT WAYS OF CREATING A FILE IN LINUX SYSTEM? WRITE AN EXAMPLE OF EACH AND THE DIFFERENCE BETWEEN THEM.
- 69. IN HOW MANY WAYS WE CAN DELETE THE FILES FROM LINUX SYSTEM? WRITE AN EXAMPLE OF EACH AND TEH DIFFERENCE BETWEEN THEM.
- 70. ARCHIVING FILES USING LINUX COMMAND, WRITE A COMMAND TO ARCHIVE SET OF FILES FROM LINUX COMMANDS.
- 71. EXTRACT THE ARCHIVED FILES FROM THE ABOVE STEP.