Practice Assignment

Note: Need not to submit as assignment, it is only for practice.

- 1. Write a shell script to calculate simple interest.
- 2. Write a shell script to calculate the average of a set of N number.
- 3. Write a Unix shell script to find the sum of number to given number. e.g. if entered number is 5 then 1+2+3+4+5
- 4. Write a shell script to perform like calculator. It should ask for the number and operand from the user.
- 5. Write a shell script to calculate the area of rectangle. It should take the value from the command line.
- 6. Write a Unix Shell Script which prints the following
 - a. Current home directory.
 - b. Current user name.
 - c. The message "Today is:" with current date in MM/dd/yy format
 - d. The message "No of users logged in:" with total no of current logged in users
 - e. The message "Terminal:" With you own terminal number
- 7. Write a shell script to create a command line calculator.
 - a. e.g. input: mycal 5 + 5 Result: 10, input: mycal 5 / 5 result: 1
- 8. Write a shell script that that takes as command line input a number N and a word, it then prints the word n times., one word per line
- 9. Write a shell script to rename file having extension sh to exe.
- 10. Write a Unix shell script to accept 10 number and tell how many are +ve, -ve and zero. Also display the in ascending order.
- 11. Write a shell script to accept fine number and display max and min value. If any two or three or four values are same, then display proper message.
- 12. Write command to check when file was last used?
- 13. Write different date format on terminal using different optional structure of date?
- 14. Using sort command to sort a file and copy its content to some other file?
- 15. Write a command to check when file was last used?
- 16. Use alias command, for performing different operations?
- 17. Use head and tail command to select last 3 entries from file?
- 18. Use shift command on a given variable entries?

- 19. Perform compress and un-compress on a file and directories?
- 20. Using cut command, cut 6-10 line from a file shortlist?
- 21. Create a file data.txt with several lines and column? Perform sum of column 7 using awk files?
- 22. Write a shell script using awk that use "getline ()" function?
- 23. Write a shell script that differentiate the use of "-f" and "-F" in awk?
- 24. Write a shell script using awk for adding header in a txt file?
- 25. Write a awk shell script for finding character "a" in a file name.txt? "Hint: Create a file name.txt containing different name"
- 26. Using touch command modify the access time of a file?
- 27. Using function write a script of Fibonacci-series?
- 28. Write a shell script to differentiate local and global variable?
- 29. Using sed command replace the word UNIX with Linux in a file?
- 30. Using sed command replace last occurrence of UNIX in all line with Linux in a file?
- 31. Use print flag to replace line twice on terminal with using sed command?
- 32. Use sed command to replace specific line in a file?
- 33. Write awk command to print rows 3 to 5 of a file?
- 34. Write multiple sed command using pipe?
- 35. Write multiple awk command using pipe?
- 36. Write sed command such that multiple sed command in a single sed command?
- 37. Write sed command to replace range of line in a file, ex: line 3 to 6, line 4 to 9 etc?
- 38. Write sed command to delete specific pattern from a file?
- 39. Write sed command to add a new line after a pattern match is found?
- 40. Write sed command to add a new line before a pattern match is found?
- 41. Write sed command to replace entire line with a new line?
- 42. Write sed command to print the first character of every word in parenthesis?
- 43. Write sed command to quit after 3rd line?

- 44. Explain awk command structure for different execution using different example?
- 45. Use different variant of ls commands?
- 46. Use different variant of ps command?
- 47. Use kill, terminate, shutdown command with several options?
- 48. Write several date formats?
- 49. Use banner command for writing your name?
- 50. Use chmod command for performing different mode change operations?
- 51. Use pr command and modify the page width?
- 52. Using if else ladder tries to find given year is a leap year?
- 53. Write a command to print the lines that has the pattern "unix" in all the files in a directory?
- 54. Write a command to print the lines that has the word "unix" in all the files in a directory and suppress the filename in the output?
- 55. Write a command to print the lines that has the word "unix" while ignoring the case?
- 56. When you use a single file as input to the grep command to search for a pattern, it won't print the filename in the output. Now write a grep command to print the filename in the output without using the '-H' option.?
- 57. Write a Unix command to display the lines in a file that do not contain the word "unix"?
- 58. Write a command to print the file names in a directory that has the word "unix"?
- 59. Write a command to print the file names in a directory that does not contain the word "unix"?
- 60. Write a command to print the line numbers along with the line that has the word "unix"?
- 61. Write a command to print the lines that starts with the word "unix"?
- 62. Write a command to print the lines that starts with the word "start"?
- 63. Write a command to print the lines which end with the word "unix"?
- 64. Write a command to select only those lines containing "unix" word?
- 65. By default, head print how many lines of as file?
- 66. How to read 2nd to 3rd last line using head and tail command?
- 67. Write a command to find the length of a line in a file?

- 68. How to remove the footer from a file?
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- 70. How to remove the footer from a file?
- 71. How to get the last word from a line in Unix file?
- 72. How to check if the last command was successful in Unix?
- 73. Write command to list all the links from a directory?
- 74. Create a read-only file in your home directory?
- 75. How to display the first 20 lines of a file?
- 76. Write a command to print the last line of a file?

Let we have a file employee.txt				
100	Thomas	Manager	Sales	\$5,000
200	Jason	Developer	Technology	\$5,500
300	Sanjay	Sysadmin	Technology	\$7,000
400	Nisha	Manager	Marketing	\$9,500
500	Randy	DBA	Technology	\$6,000

AWK

- 1. Using AWK prints every line from the file.
- 2. Print the lines which matches with the pattern ('/Thomas/>/Nisha/').
- 3. Print only specific field \$2 \$5.
- 4. Find the employees who has employee id greater than 200.
- 5. Print the list of employees in Technology department.
- 6. Print number of employees in Technology department.