

TYBCA – (SEM –V)
502-Unix & Shell Programming
Journal Programs

1. Write a shell script to find greatest amongst three numbers.
2. Write a shell script to find all prime numbers in given range.
3. Write a shell script to draw following pattern.
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* *
* * *
* * * *
* * * * *
4. Write a shell script to find sum of digits of a number.
5. Write a shell script to print fibonacci series upto entered value N.
6. Write a menu driven shell script which accepts basic amount as an input and displays following options.
 - a. Dearness allowance (90% of basic)
 - b. Provident Fund F (12% of basic)
 - c. House Rent Allowance (20% of basic + DA)
 - d. Income tax deducted (5% of basic + DA + HRA)
 - e. Take home salary (basic + DA + HRA – IT)
7. Write a shell script to find file permissions of user, group and others.
8. Write a shell script that accepts two files are identical or not.
9. Write a shell script to display all the words, having length <4 characters, of a file f1.txt
10. Write a shell script to find total number of files and total number of directories in current working directory.
11. Write a shell script to find total number of characters, words and lines of a file. (Do not use `wc` command).
12. Write a shell script which accepts a username and check the entered user is currently logged in or not.
13. Write a shell script to find total number of occurrences of SDJIC in given file. (Please provide necessary validations)
14. Write a shell script which accepts filename as input and reverse individual words from it. (Please provide necessary validations)
15. Write a shell script to display all the lines from a file (f1.txt), which starts with text "unix". (not case sensitive)
16. Write `grep` command to perform following actions:
 - a. Count number of blank lines in file f1.txt
 - b. print all lines containing `sdjic`
 - c. print the lines that starts with `sdjic`.
 - d. Search the files in CPROGRAMS directory which has the string "include"
 - e. print lines having exactly 50 characters in file f1.txt
 - f. Count number of blank lines in file f1.txt
 - g. Display lines having atleast one characters in file f1.txt
 - h. Display lines having `sdjic` text in any case in file f1.txt
 - i. Display line of file f1.txt having exactly 3 characters
 - j. Display lines of file f1.txt which begin with any alphabet
 - k. Display lines whose last word is "UNIX" in file f1.txt



- l. Display filenames having last character as digit [0-9]
 - m. Display list of filenames that only consist digits
 - n. Display line of file f1.txt which only consist digits
 - o. Display lines of file f1.txt which only consist capital alphabets
 - p. Search all lines in file f1.txt which ends with "."
17. Write sed command to perform following tasks
- a. To print only last line of f1.txt
 - b. To print line number 1-3, 6-7 and 10 of f1.txt
 - c. To print lines beginning with SDJIC of f1.txt
 - d. Print three lines starting from fourth line of f1.txt
 - e. Print all blank lines of file f1.txt
 - f. Print lines having either of "sdjic" or "sdjyc"
 - g. Lines beginning with either alphabet or digit
 - h. To insert a line "additional line" before every line
 - i. To replace every occurrence of | with : of first three lines
 - j. To replace every occurrence of "|" with ":" of every line
 - k. To remove all the lines having word "fail" from file f1.txt (delete command)

Note:

- Lab journals are to be submitted in journal files only.
- Index with proper page number is mandatory.
- Journal submission date will be declared during lectures.

Prof. Nainesh Gathiyawala