

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department of Computer Science and Engineering

CS6103D SOFTWARE SYSTEMS LAB - MONSOON 2022

Shell practice questions

1. Create a list of input string based on it write a shell program to reverse the list of strings and also try to reverse each string further in the list.
2. Write a bash script that monitors the free space of your hard disk.
3. Write a script to verify a .CSV (comma separated values file). The first line in the file is a HEADER row with column names as values remaining rows except the last one are data rows. The last row is a FOOTER row with the total number of records as values.
4. Write a monitoring script to check the following. It should be possible to run these checks separately by supplying the corresponding argument option. Hint: Use get opts.
 - (a) Processes with biggest memory usage. (command line option -p)
 - (b) List of mounted devices. (command line option -m)
 - (c) Disks which are more than 90.
 - (d) Five biggest files created in the last one hour with their corresponding size in MB. (command line option -f)
5. Write a bash script that sorts the given numbers.
 - A valid list of integers should be given as a command line argument, for sorting.
 - At least two integers should be there to sort
 - If the integer is not valid, the sort function should report the error message
6. Write a shell program that renames the files in the current directory based on their extension.
 - User should be asked with the type of extension and the prefix to prepend to the file name.
 - Whatever the user entered should be used as the prefix of the file name.
 - The output should display the original file name and new name of the file.