

Lab sheet 2 - Shell programming (Unix commands)

1. Write a shell script to accept the text from keyboard until a special symbol for End of file is encountered, write it into a file and count the no. of lines in it.
2. Write a shell script to generate emails in the given format and write it into a file. Your script should accept sender and recipient email id's and subject as command line arguments.

From: abc@domain1.com

To: xx@domain.com

Cc: yy@domain.com

Subject: Subject 1

This email is generated by my shell script.

Thanks and regards

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3. In Question 2 allow user to enter text at the beginning of email content, by passing it as a command line argument.
4. Write a shell script to
 - a. write the name and permissions of all files within a given directory recursively into a file. {If the directory is not present the error message should be print on to terminal. Your script may overwrite the file if it is already existing}
 - b. Make your script for question 4 print the error message also to terminal.
5. Write a shell script to
 - a. Accept a file as input and extract all the words containing 'a' and display it in sorted order.
 - b. Accept a file as input and extract all the words starting with letter 's' and display it in sorted order.
 - c. Accept a file as input and extract all the words whose second letter is 'a' and display it in sorted order.
6. Write a shell script to find all process running in background, bring any one of the process to foreground and execute it and kill another one. [Before executing your script run two or more processes in background using & operator and see the difference]
7. Write a shell script to extract
 - a. File name of the current script
 - b. Process number of the current shell
 - c. Process number of last background command
 - d. Exit status of last executed command
8. Extract nice value of all processes and reset any one.
9. Using function write a shell script to find gcd of two numbers.
10. Using Recursion find factorial of a number?
