

### Practice Problem Statements on shell programming and commands

- 1) Write a command to create two input files containing five names each and perform the following operations on the command prompt:
  - a. Concatenate two files.
  - b. Arrange the names of the friends in ascending order.
  - c. Arrange the names of the friends in descending order.
  - d. Remove the contents of the files.
  - e. Repeat the entire work via a shell program
- 2) Write a shell program to determine whether the entered 3-digit no is Armstrong or not
- 3) Write a shell program to compute the Fibonacci series using a while loop.
- 4) Write a shell program to Determine whether a person is eligible to vote.
- 5) Write a shell program to do the following:
  1. Display the top 10 processes in descending order.
  2. Display the process with the highest memory usage.
  3. Display the current user logged in and login name.
  4. Display the first 11 lines from a file.
- 6) Write a shell program to create two employee files, and each should store the following information:
  - 1) Empid 2) Empname 3) Salary 4) Designation and perform the following operations:
    - a) Join two files in 3<sup>rd</sup> file and display two files (concatenate two files).
    - b) Search for any pattern in input files. (not taken in the lab still you can try man command to try grep command use as `$man grep`)
    - c) Sort the input files.
- 7) Write a shell program to create Customer files, and each should store the following information: 1) custid, 2) username, 3) city, 4) balance, and perform the following operations. Search for any word in from the file grep (not taken in the lab still you can try man command to try grep command use as `$man grep`)