**PSG COLLEGE OF TECHNOLOGY, COIMBATORE-641 004**

**DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCES**

**M. Sc Software Systems – V Semester**

**Unix Shell and System Programming Lab – Shell script problem sheet**

### Write a script to rename current working directory with given name

WARNING: Don’t try this in your home/ directory.

Please create a separate directory to test this script.

After executing this script your current directory will be renamed to given name

### Display the longest and shortest usernames on the system (usernames are in the first field in /etc/passwd. Explore /etc/passwd).

### Write script called sayHello, put this script into your startup file called .bash\_profile, the script should run as soon as you logon to system, and it print any one of the following messages depending on system time.

* "Good Morning" (9 AM – 1 PM)
* "Good Afternoon" (2 PM – 5 PM)
* "Good Evening" (5PM – 9 PM)
* “Good Night” (9 PM – 9 AM)

1. Shell script to replace `geology' with `geophysics' in all text files.
2. Your task is to create a shell script that is able to back up all the C program files in your current directory.

The algorithm is as follows:

* If a backup directory does not exist, then prompt the user if they would like to make one.
  + If the user responds "y" or "yes" in either capitals or lowercase, then make the backup directory (in your current working directory)
  + If the user responds "n" or "no" in either capitals or lowercase, then produce a message that no directory was created
  + otherwise, print a message that an invalid response was entered
* If the backup directory was successfully created (ie. it exists)
  + For each .c file:
    - If there have been changes to the file since the last backup, then copy the current .c file to the backup directory and print a message that the file has been updated
    - Else (if no copy exists in the backup directory) copy it and print a message that the file had no previous copy and is now backed up
    - (Otherwise, no copy will be made)