Assignment 1

1. Study of Unix/Linux general purpose utility command list : man, who,cat, cd, cp, ps, ls, mv,rm, mkdir, rmdir, echo, more, date, time, kill, history, chmod, chown, finger, pwd, cal, logout, shutdown commands.

2. Write C programs to simulate UNIX commands like ls, grep, etc.

3. Write a program to implement
   1. Create a file
   2. Read contents of a file
   3. Write to a file
   4. Link and unlink a file
   5. Copy file
   6. Read contents of a file in a reverse order

   Using the system calls: open( ), close( ), read( ), write( ), lseek( ), link( ), unlink( ).

4. Determine the size of a file using the lseek command. Once you found out the size, calculate the number of blocks assigned for the file. Compare these results with the similar results obtained when using the function **stat.**

5. Write a program to change current working directory and display the inode details for each file in the new directory using the system calls: opendir( ), readdir( ), closedir( ), getcwd( ), chdir( ).