Institute of Engineering & Management
Department of Computer Science & Engineering
Operating System Lab for 3rd year 6th semester 2019
Code: CS 693

Date: 30/01/19

WEEK-1

Assignment-1

Problem Statement: List all the files and directories of '/bin' with detail information from your current directory.

Command: `ls`

Screen-Shot:

```
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ ls
1d.c                          longinput.c
2a.c                          Main$1NewException.class
2b.c                          Main.class
2c.c                          Main.java
2d.c                          max_sum.c
2e.c                          max_sum.cpp
2f.c                          merge.c
3a.c                          Music
3b.c                          Mythread.class
3c.c                          neighbor.c
4a.c                          Node.class
4b.c                          Overload.class
4b_rough.c                    Overload.java
4c.c                          parity1d.cpp
4d.c                          parity2d.c
4e.c                          Pattern2.java
5a.c                          Pattern.java
5.c                           Pictures
a1.c                          polynomial_nd_newton_f_interpol.c
a2.c                          prefix_evaluation.c
a4b.c                         Public
a.c                           q3.c
Account.class                 quick1.c
A.class                       quick2.c
anaconda3                     quick3.c
a.out                         quick.c
AreaArray.java                quicksort.c
Area.class                    quicksort_row.c
AreaDemo2.class               quicksort_row.cpp
AreaDemo2.java                R
AreaDemo.class                Rectangle.class
AreaDemo.java                 rstudio-server-1.1.463-amd64.deb
array2.c                      runge_kutta_ord_2.c
array3.c                      runge_kutta_ord_4.c
array.c                       Saving.class
atm.c                         search.cpp
avl.c                         second.c
```

Assignment-2

Problem Statement: List all the files including hidden files in your parent directory.

Command: `ls -a`

Screen-Shot:

```
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ ls -a
.                 .bashrc-anaconda3.bak    LinkedList.class                   ShapeArray.java
..                B.class                  linked_list.java                   Shape.class
1d.c              bitonic1.c               LinkedList.java                    Shape.java
2a.c              bitonic.c                .local                             ShapeManager.class
2b.c              .cache                   longinput.c                        ShapeManager.java
2c.c              C.class                  Main$1NewException.class           smallfact.c
2d.c              Circle.class             Main.class                         Square.class
2e.c              code2.c                  Main.java                          stack.cpp
2f.c              .compiz                  max_sum.c                          strassen.cpp
3a.c              complex.cpp              max_sum.cpp                        .sudo_as_admin_successful
3b.c              .conda                   merge.c                            swap1.c
3c.c              .config                  .mozilla                           swap2.c
4a.c              Countinversionpair.c     Music                              swap.c
4b.c              covariance.class         Mythread.class                     swap.cpp
4b_rough.c        covariance.java          neighbor.c                         swap.java
4c.c              cramer1.c                Node.class                         Swap.java
4d.c              Current.class            Overload.class                     temp.class
4e.c              D.class                  Overload.java                      Templates
5a.c              Derived.class            parity1d.cpp                       test
5.c               Desktop                  parity2d.c                         Thread1.class
a1.c              .dmrc                    Pattern2.java                      Thread1.java
a2.c              Documents                Pattern.java                       ThreadDemo.class
a4b.c             Downloads                Pictures                           ThreadDemo.java
a.c               DS LAB ASSIGNMENT-2      polynomial_nd_newton_f_interpol.c  threaded.c
Account.class     E.class                  prefix_evaluation.c                ThreadEven.class
A.class           .emacs.d                 .profile                           ThreadOdd.class
anaconda3         examples.desktop         Public                             trapezoidal_simpson_wedel_all_in_one.c
a.out             exp.c                    q3.c                               TriangleArea.class
.aptitude         falsi.c                  quick1.c                           Triangle.class
AreaArray.java    gauss1.c                 quick2.c                           Triangle.java
Area.class        gauss2.c                 quick3.c                           Untitled Folder
AreaDemo2.class   .gconf                   quick.c                            uppertriangle1.c
AreaDemo2.java    .gem                     quicksort.c                        Videos
AreaDemo.class    .gnupg                   quicksort_row.c                    Week1(1).docx
AreaDemo.java     heap1.c                  quicksort_row.cpp                  week7_3$1.class
array2.c          heap.c                   R                                  week7_3$2.class
array3.c          Hello1.class             Rectangle.class                    week7_3.class
array.c           Hello1.java              .Rhistory                          week7_3.java
atm.c             Hello.class              .rstudio-desktop                   white.cpp
avl.c             Hello.java               rstudio-server-1.1.463-amd64.deb   wordsort.cpp
avl.h             .ICEauthority            runge_kutta_ord_2.c                .Xauthority
avl.h.gch         interpolation.c          runge_kutta_ord_4.c                x.c
```

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Assignment-3

Problem Statement: List only the directory files in your current directory.

Command: `ls -d */`

Screen-Shot:

```
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ ls -d */
anaconda3/  Documents/  DS LAB ASSIGNMENT-2/  Music/     Public/  Templates/      Videos/
Desktop/    Downloads/  JAVA ASSIGNMENTS/     Pictures/  R/       Untitled Folder/  Xilinx ISE 10.1/
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$
```

Assignment-4

Problem Statement: Create a file 'text 1' by taking input from the keyboard.

Command:
```
touch text1.txt
nano text1.txt
```

Screen-Shot:

```
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ touch text1.txt
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ nano text1.txt
  GNU nano 2.5.3                        File: text1.txt

Hello World!!!
Good morning.
```

Assignment-5

Problem Statement: Copy the contents of file' text1' to another file 'text2'.

Command:
```
cp text1.txt  text2.txt
nano text2.txt
```

Screen-Shot:

```
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ cp text1.txt text2.txt
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ nano text2.txt
  GNU nano 2.5.3                        File: text2.txt

Hello World!!!
Good morning.
```

Assignment-6

Problem Statement: Append the contents of file 'text2 'to file 'text1'.

Command:
```
cat text2.txt  >>  text1.txt
nano text1.txt
```

Screen-Shot:

```
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ touch text1.txt
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ nano text1.txt
```

```
  GNU nano 2.5.3                          File: text1.txt

Hello World!!!
Good morning.█


swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ nano text2.txt
  GNU nano 2.5.3                                    File: text2.txt

Hello, how are you?
It is raining today.█

swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ cat text2.txt >> text1.txt
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ █

swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ nano text1.txt█
  GNU nano 2.5.3                          File: text1.txt

█ello world!!!
Good morning.
Hello, how are you?
It is raining today.
```

Assignment-7

Problem Statement: Count the number of lines in the file 'text1'.

Command: `wc –l text1.txt`

Screen-Shot:

```
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ wc -l text1.txt
4 text1.txt
swapnil@swapnil-HP-Pavilion-g6-Notebook-PC:~$ █
```