Assignment No. 1

Perform the following tasks using unix commands in the unix command prompt in your home directory.

a) Check are you in your home directory?

   pwd

```
anubhav@DESKTOP-9VIA8NE:~$ pwd
/home/anubhav
```

b) Check who are the other users currently logged into this system.

   who

```
anubhav@DESKTOP-9VIA8NE:~$ pwd
/home/anubhav
anubhav@DESKTOP-9VIA8NE:~$ who
```

c) List in detail about all the files and directories in the home folder.

   ls -l

```
anubhav@DESKTOP-9VIA8NE:/home$ ls -l
total 4
drwxr-x--- 4 anubhav anubhav 4096 Aug 24 19:45 anubhav
anubhav@DESKTOP-9VIA8NE:/home$
```

d) Create a directory 'yourname_oslab' in your home directory.

```
anubhav@DESKTOP-9VIA8NE:/home$ cd anubhav
anubhav@DESKTOP-9VIA8NE:~$ mkdir anubhav_oslab
anubhav@DESKTOP-9VIA8NE:~$ ls
'New folder'   anubhav_oslab
```

e) List all the directories in your home forlder to verify the creation of 'yourname_oslab' directory.

```
anubhav@DESKTOP-9VIA8NE:/home$ cd anubhav
anubhav@DESKTOP-9VIA8NE:~$ mkdir anubhav_oslab
anubhav@DESKTOP-9VIA8NE:~$ ls
'New folder'   anubhav_oslab
```

f) Create a file employee.txt as given below.
7369 SMITH CLERK 7902 17-DEC-1980 800 20 7499 ALLEN SALESMAN 7698 20-FEB-1981 1600 30 7521 WARD SALESMAN 7698 22-FEB-1981 1250 30 7566 JONES MANAGER 7839 2-APR-1981 2975 20 7654 MARTIN SALESMAN 7698 28-SEP-1981 1250 30 7698 BLAKE MANAGER 7839 1-MAY-1981 2850 30 7782 CLARK MANAGER 7839 9-JUN-1981 2450 10 7788 SCOTT ANALYST 7566 09-DEC-1982 3000 20 7839 KING PRESIDENT 1 17-NOV-1981 5000 10

```
anubhav@DESKTOP-9VIA8NE:~$ vim employee.txt
anubhav@DESKTOP-9VIA8NE:~$ cat employee.txt
7369 SMITH CLERK 7902 17-DEC-1980 800 20
7499 ALLEN SALESMAN 7698 20-FEB-1981 1600 30
7521 WARD SALESMAN 7698 22-FEB-1981 1250 30
7566 JONES MANAGER 7839 2-APR-1981 2975 20
7654 MARTIN SALESMAN 7698 28-SEP-1981 1250 30
7698 BLAKE MANAGER 7839 1-MAY-1981 2850 30
7782 CLARK MANAGER 7839 9-JUN-1981 2450 10
7788 SCOTT ANALYST 7566 09-DEC-1982 3000 20
7839 KING PRESIDENT 1 17-NOV-1981 5000 10
```

g) Create another file employee2nd.txt as given below.

7844 TURNER SALESMAN 7698 8-SEP-1981 1500 30 7876 ADAMS CLERK 7788 12-JAN-1983 1100 20 7900 JAMES CLERK 7698 3-DEC-1981 950 30 7902 FORD ANALYST 7566 3-DEC-1981 3000 20 7934 MILLER CLERK 7782 23-JAN-1982 1300 10
Here, the columns indicates the followig information

```
anubhav@DESKTOP-9VIA8NE:~$ vim employee2nd.txt
anubhav@DESKTOP-9VIA8NE:~$ cat employee2nd.txt
7844 TURNER SALESMAN 7698 8-SEP-1981 1500 30
7876 ADAMS CLERK 7788 12-JAN-1983 1100 20
7900 JAMES CLERK 7698 3-DEC-1981 950 30
7902 FORD ANALYST 7566 3-DEC-1981 3000 20
7934 MILLER CLERK 7782 23-JAN-1982 1300 10
```

h) Display the content of the employee2nd.txt file and concatenate to the employee.txt using redirect commands.

```
anubhav@DESKTOP-9VIA8NE:~$ cat employee2nd.txt >> employee.txt
anubhav@DESKTOP-9VIA8NE:~$ cat employee.txt
7369 SMITH CLERK 7902 17-DEC-1980 800 20
7499 ALLEN SALESMAN 7698 20-FEB-1981 1600 30
7521 WARD SALESMAN 7698 22-FEB-1981 1250 30
7566 JONES MANAGER 7839 2-APR-1981 2975 20
7654 MARTIN SALESMAN 7698 28-SEP-1981 1250 30
7698 BLAKE MANAGER 7839 1-MAY-1981 2850 30
7782 CLARK MANAGER 7839 9-JUN-1981 2450 10
7788 SCOTT ANALYST 7566 09-DEC-1982 3000 20
7839 KING PRESIDENT 1 17-NOV-1981 5000 10

7844 TURNER SALESMAN 7698 8-SEP-1981 1500 30
7876 ADAMS CLERK 7788 12-JAN-1983 1100 20
7900 JAMES CLERK 7698 3-DEC-1981 950 30
7902 FORD ANALYST 7566 3-DEC-1981 3000 20
7934 MILLER CLERK 7782 23-JAN-1982 1300 10
```

i) Copy the file employee.txt to your oslab directory.

```
anubhav@DESKTOP-9VIA8NE:~$ cp employee.txt ~/anubhav_oslab/
anubhav@DESKTOP-9VIA8NE:~$ cd anubhav_oslab
anubhav@DESKTOP-9VIA8NE:~/anubhav_oslab$ ls
employee.txt
anubhav@DESKTOP-9VIA8NE:~/anubhav_oslab$
```

j) Display the count of the number of lines, words, and characters in employee.txt individually using filter (|) operator.

```
anubhav@DESKTOP-9VIA8NE:~/anubhav_oslab$ line_count=$(cat employee.txt | wc -l)
word_count=$(cat employee.txt | wc -w)
char_count=$(cat employee.txt | wc -c)

echo "Line count: $line_count"
echo "Word count: $word_count"
echo "Character count: $char_count"
Line count: 14
Word count: 91
Character count: 560
```

k) Display how much time the previous command took to execute at various resources.

```
anubhav@DESKTOP-9VIA8NE:~/anubhav_oslab$ time wc employee.txt
 15  98 604 employee.txt


real    0m0.004s
user    0m0.001s
sys     0m0.001s
anubhav@DESKTOP-9VIA8NE:~/anubhav_oslab$
```

l) Compare the content of employee.txt of home and 'yourname_oslab' directory.

```
anubhav@DESKTOP-9VIA8NE:~$ diff employee.txt ~/anubhav_oslab/employee.txt
15a16,17
> anubhav
> kharwar
anubhav@DESKTOP-9VIA8NE:~$
```

m) Remove the employee.txt file from your home directory.

```
anubhav@DESKTOP-9VIA8NE:~$ rm employee.txt
anubhav@DESKTOP-9VIA8NE:~$ ls
'New folder'   anubhav_oslab   employee2nd.txt
anubhav@DESKTOP-9VIA8NE:~$
```