OS and Networking Lab (CA3504)

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Course : MCA V semester

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Assignment-02

Refer the file employee.txt file created in the first assignment and perform the following operation on it using unix commands

a) Provide all permission to user, and only read and execution permission to group and others on the file employee.txt

Command –

```
surya@ubuntu:~$ ls -l
total 4
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Desktop
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Documents
drwxr-xr-x 2 surya surya  60 Aug 17 09:27 Downloads
-rw-rw-r-- 1 surya surya 212 Aug 22 16:03 employee2nd.txt
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Music
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Pictures
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Public
drwx------ 4 surya surya  80 Aug 17 08:44 snap
drwxrwxr-x 2 surya surya  60 Aug 22 16:04 suryakant_oslab
drwxrwxr-x 2 surya surya  40 Aug 17 08:51 surya_oslab
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Templates
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Videos
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Videos
surya@ubuntu:~$ chmod u=rwx, g=rx, o=rx, employee2nd.txt
surya@ubuntu:~$ ls -l
total 4
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Desktop
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Documents
drwxr-xr-x 2 surya surya  60 Aug 17 09:27 Downloads
-rwxrw-r-- 1 surya surya 212 Aug 22 16:03 employee2nd.txt
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Music
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Pictures
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Public
drwx------ 4 surya surya  80 Aug 17 08:44 snap
drwxrwxr-x 2 surya surya  60 Aug 22 16:04 suryakant_oslab
drwxrwxr-x 2 surya surya  40 Aug 17 08:51 surya_oslab
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Templates
drwxr-xr-x 2 surya surya  40 Aug 17 08:39 Videos
surya@ubuntu:~$
```

b) Filter out all CLERKs and MANAGERS from employee.txt and store in separate files named 'clerk.txt' and 'manager.txt'

Command –

```
surya@ubuntu:~$ grep 'CLERK' employee.txt > clerk.txt
surya@ubuntu:~$ grep 'MANAGER' employee.txt > manager.txt
```

c) filter all employees born in the year of 1981 from clerk.txt and manager.txt and store in an another file 'newemp.txt'

Command –

```
surya@ubuntu:~$ grep '1981' clerk.txt > newemp.txt
surya@ubuntu:~$ grep '1981' manager.txt >> newemp.txt
surya@ubuntu:~$ cat newemp.txt
surya@ubuntu:~$
```

d) filter subsequenly all employee born in the year of 1982 and 1983 and append to the file 'newemp.txt'

Command –

```
surya@ubuntu:~$ grep '1982' employee.txt >> newemp.txt
surya@ubuntu:~$ grep '1983' employee.txt >> newemp.txt
surya@ubuntu:~$ cat newemp.txt
surya@ubuntu:~$
```

e) Find out how many employees works under PRESIDENT in employee.txt.

Command –

```
surya@ubuntu:~$ grep 'PRESIDENT' employee.txt | wc -l
0
surya@ubuntu:~$
```

f) How many employees are working in the department with code 30

Command –

```
surya@ubuntu:~$ grep '30$' employee.txt | wc -l
0
surya@ubuntu:~$
```

g) List details of all the c programming file in the current directory

Command –

```
surya@ubuntu:~$ ls -l | grep '\.c$'
surya@ubuntu:~$
```

h) Count the number of directories present in the current directory

Command –

```
surya@ubuntu:~$ ls -l | grep '^d' | wc -l
11
surya@ubuntu:~$
```