

EXERCISE 1- 21BBT035

q1.

```
sahas@DESKTOP-H1A634K:~$ pwd
/home/sahas
sahas@DESKTOP-H1A634K:~$ cd
sahas@DESKTOP-H1A634K:~$ mkdir ex1
sahas@DESKTOP-H1A634K:~$ cd ex1
sahas@DESKTOP-H1A634K:~/ex1$ nano 1.txt 2.txt 3.txt
sahas@DESKTOP-H1A634K:~/ex1$ ls
1.txt 2.txt 3.txt
sahas@DESKTOP-H1A634K:~/ex1$ grep "bioinformatics" *.*
1.txt:bioinformatics
2.txt:bioinformatics
3.txt:bioinformatics
sahas@DESKTOP-H1A634K:~/ex1$ grep "bioinformatics" *.* | wc -l
3
```

q2.

```
sahas@DESKTOP-H1A634K:~$ pwd
/home/sahas
sahas@DESKTOP-H1A634K:~$ cd
sahas@DESKTOP-H1A634K:~$ ls
1.txt 2.txt dept ex1 extracted.csv l try1
sahas@DESKTOP-H1A634K:~$ /mnt/e
-bash: /mnt/e: Is a directory
sahas@DESKTOP-H1A634K:~$ cd /mnt/e
```

```
sahas@DESKTOP-H1A634K:/mnt/e$ ls
```

```
'$RECYCLE.BIN' RStudio      'System Volume Information' 'agra shimla'      errorlogfile.txt  
'north india'
```

```
CodeBlocks  'Santosh marriage' VTS_01_2.VOB      'annual day ybps.VOB' 'munnar pics'  
'pranav bday 1st yr'
```

```
sahas@DESKTOP-H1A634K:/mnt/e$ cat errorlogfile.txt
```

```
2024-07-11 12:01:34 INFO User logged in
```

```
2024-07-11 12:02:41 ERROR Database connection failed
```

```
2024-07-11 12:03:12 WARNING Disk space low
```

```
2024-07-11 12:04:53 ERROR Failed to load configuration
```

```
2024-07-11 12:05:01 INFO File uploaded successfully
```

```
2024-07-11 12:06:45 ERROR User authentication failed
```

```
2024-07-11 12:07:22 INFO System shutdown initiated
```

```
2024-07-11 12:08:30 ERROR Unable to save file
```

```
2024-07-11 12:09:19 WARNING High memory usage
```

```
2024-07-11 12:10:10 INFO User logged out
```

```
sahas@DESKTOP-H1A634K:/mnt/e$ grep "ERROR" errorlogfile.txt
```

```
2024-07-11 12:02:41 ERROR Database connection failed
```

```
2024-07-11 12:04:53 ERROR Failed to load configuration
```

```
2024-07-11 12:06:45 ERROR User authentication failed
```

```
2024-07-11 12:08:30 ERROR Unable to save file
```

```
sahas@DESKTOP-H1A634K:/mnt/e$ grep "ERROR" errorlogfile.txt | wc -l
```

```
4
```

```
sahas@DESKTOP-H1A634K:/mnt/e$ grep "ERROR" errorlogfile.txt | sort +1 -2 | cat > err1.txt
```

```
sahas@DESKTOP-H1A634K:/mnt/e$ cat err1.txt
```

```
2024-07-11 12:02:41 ERROR Database connection failed
```

```
2024-07-11 12:04:53 ERROR Failed to load configuration
```

```
2024-07-11 12:06:45 ERROR User authentication failed
```

```
2024-07-11 12:08:30 ERROR Unable to save file
```

```
sahas@DESKTOP-H1A634K:/mnt/e$
```

q3.

```
sahas@DESKTOP-H1A634K:~/ex1$ cd
sahas@DESKTOP-H1A634K:~$ ls
1.txt 2.txt ex1 try1
sahas@DESKTOP-H1A634K:~$ ls -l 1.txt
-rw-r--r-- 1 sahas sahas 0 Jul 14 11:21 1.txt
sahas@DESKTOP-H1A634K:~$ chmod 040 1.txt
sahas@DESKTOP-H1A634K:~$ ls -l 1.txt
----r----- 1 sahas sahas 0 Jul 14 11:21 1.txt
```

q4.

```
sahas@DESKTOP-H1A634K:~$ mkdir dept
sahas@DESKTOP-H1A634K:~$ cd dept
sahas@DESKTOP-H1A634K:~/dept$ mkdir fin pers mktg
sahas@DESKTOP-H1A634K:~/dept$ cd fin
sahas@DESKTOP-H1A634K:~/dept/fin$ mkdir exp inc
sahas@DESKTOP-H1A634K:~/dept/fin$ cd ..
sahas@DESKTOP-H1A634K:~/dept$ cd pers
sahas@DESKTOP-H1A634K:~/dept/pers$ mkdir admin pay
sahas@DESKTOP-H1A634K:~/dept/pers$ cd ..
sahas@DESKTOP-H1A634K:~/dept$ cd fin
sahas@DESKTOP-H1A634K:~/dept/fin$ cd exp
sahas@DESKTOP-H1A634K:~/dept/fin/exp$ touch ent.txt postage.txt
sahas@DESKTOP-H1A634K:~/dept/fin/exp$ cd ..
sahas@DESKTOP-H1A634K:~/dept/fin$ cd inc
sahas@DESKTOP-H1A634K:~/dept/fin/inc$ touch fees.txt sales.txt
```

```
sahas@DESKTOP-H1A634K:~/dept/fin/inc$ cd ..
sahas@DESKTOP-H1A634K:~/dept/fin$ cd ..
sahas@DESKTOP-H1A634K:~/dept$ cd pers
sahas@DESKTOP-H1A634K:~/dept/pers$ cd admin
sahas@DESKTOP-H1A634K:~/dept/pers/admin$ touch exp.txt reco.txt
sahas@DESKTOP-H1A634K:~/dept/pers/admin$ cd ..
sahas@DESKTOP-H1A634K:~/dept/pers$ cd pay
sahas@DESKTOP-H1A634K:~/dept/pers/pay$ touch ded.txt add.txt
sahas@DESKTOP-H1A634K:~/dept/pers/pay$ cd ..
sahas@DESKTOP-H1A634K:~/dept/pers$ cd ..
sahas@DESKTOP-H1A634K:~/dept$ cd mktg
sahas@DESKTOP-H1A634K:~/dept/mktg$ touch salesinfo.txt pur.txt
sahas@DESKTOP-H1A634K:~/dept/mktg$ cd ..
sahas@DESKTOP-H1A634K:~/dept$ tree
```

```
.
├── fin
│   ├── exp
│   │   ├── ent.txt
│   │   └── postage.txt
│   └── inc
│       ├── fees.txt
│       └── sales.txt
├── mktg
│   ├── pur.txt
│   └── salesinfo.txt
└── pers
    ├── admin
    │   ├── exp.txt
    │   └── reco.txt
    └── pay
        └── add.txt
```

└─ ded.txt

7 directories, 10 files

```
sahas@DESKTOP-H1A634K:~/dept$ cp dept/pers/pay/ded dept/mktg/deduc
```

```
cp: cannot stat 'dept/pers/pay/ded': No such file or directory
```

```
sahas@DESKTOP-H1A634K:~/dept$ cd ..
```

```
sahas@DESKTOP-H1A634K:~$ cp dept/pers/pay/ded dept/mktg/deduc
```

```
cp: cannot stat 'dept/pers/pay/ded': No such file or directory
```

```
sahas@DESKTOP-H1A634K:~$ cp dept/pers/pay/ded.txt dept/mktg/deduc.txt
```

```
sahas@DESKTOP-H1A634K:~$ ln -s $(pwd)/dept/mktg/deduc dept/pers/admin/deduc_link
```

```
sahas@DESKTOP-H1A634K:~$ cp dept/mktg/salesinfo dept/pers/pay/
```

```
cp: cannot stat 'dept/mktg/salesinfo': No such file or directory
```

```
sahas@DESKTOP-H1A634K:~$ cp dept/mktg/salesinfo.txt dept/pers/pay/
```

```
sahas@DESKTOP-H1A634K:~$ mv dept/pers/pay/salesinfo.txt dept/fin/exp/sinfo.t
```

```
xt
```

```
sahas@DESKTOP-H1A634K:~$ cp dept/fin/exp/sinfo.txt dept/fin/
```

```
sahas@DESKTOP-H1A634K:~$ rm dept/fin/exp/sinfo.txt
```

```
sahas@DESKTOP-H1A634K:~$ mv dept/fin/exp/postage.txt dept/pers/pexp.txt
```

```
sahas@DESKTOP-H1A634K:~$ ln -s $(pwd)/dept/pers/pexp.txt dept/pers/pexp_link
```

```
sahas@DESKTOP-H1A634K:~$ rm dept/pers/pexp.txt
```

```
sahas@DESKTOP-H1A634K:~$ tree dept
```

```
dept
```

```
├─ fin
```

```
| └─ exp
```

```
| | └─ ent.txt
```

```
| └─ inc
```

```
| | └─ fees.txt
```

```
| | └─ sales.txt
```

```
| └─ sinfo.txt
```

```
├─ mktg
```

```
| └─ deduc.txt
```

```
|  └─ pur.txt
|  └─ salesinfo.txt
└─ pers
    └─ admin
        |  └─ deduc_link -> /home/sahas/dept/mktg/deduc
        |  └─ exp.txt
        |  └─ reco.txt
        └─ pay
            |  └─ add.txt
            |  └─ ded.txt
            └─ pexp_link -> /home/sahas/dept/pers/pexp.txt
```