

1)

a.

```
(kavya@kali)-[~]  
$ mkdir OSEndSem
```

b.

```
(kavya@kali)-[~]  
$ cd OSEndSem  
  
(kavya@kali)-[~/OSEndSem]  
$
```

```
(kavya@kali)-[~/OSEndSem]  
$ touch details.txt
```

c.

```
(kavya@kali)-[~/OSEndSem]
$ echo "Full Name : Koduru Kavya Sri" > details.txt
echo "Roll NO : CB.SC.U4CYS23024" >> details.txt
echo "Home Town Name : Hyderabad" >> details.txt
```

```
(kavya@kali)-[~/OSEndSem]
$ cat details.txt
```

^C

```
(kavya@kali)-[~/OSEndSem]
$ cat details.txt
```

d.

```
(kavya@kali)-[~/OSEndSem]
└─$ mkdir Question1

(kavya@kali)-[~/OSEndSem]
└─$ mv details.txt Question1/

(kavya@kali)-[~/OSEndSem]
└─$ ls
details.txt~ Question1
```

e.

```
(kavya@kali)-[~/OSEndSem]
└─$ chmod 734 details.txt
```

f.

```
(kavya@kali)-[~/OSEndSem]
```

```
$ cp -r Question1 Q1
```

```
(kavya@kali)-[~/OSEndSem]
```

```
$ ls
```

```
details.txt~  Q1  Question1
```

9.

```
(kavya@kali)-[~/OSEndSem]
```

```
$ find /var -type f -name "*.log"
```

```
find: '/var/log/gdm3': Permission denied
```

```
/var/log/stunnel4/stunnel.log
```

```
/var/log/alternatives.log
```

```
find: '/var/log/inetsim': Permission denied
```

```
/var/log/boot.log
```

```
/var/log/postgresql/postgresql-15-main.log
```

```
/var/log/macchanger.log
```

```
/var/log/apache2/access.log
```

```
/var/log/apache2/error.log
```

2)

```
(kavya@kali)-[~]
$ ./Q2
Enter a number: 24
Prime numbers from 0 to 24 are: 2 3 5 7 11 13 17 19 23
Adios

(kavya@kali)-[~]
$ ./Q2
Enter a number: 25
Factorial of 25 written to q2_a.txt
Adios
```

3)

```
PS C:\Users\kavya\My Drive (koduru.kavyasri@gmail.com)\AmritaCollege\2.1_OS_Lab\End_Sem\output> & .\'Q3.exe'
Process Arrival Service Completion Turnaround Waiting
1 0 6 360 360 0
2 1 3 540 539 359
3 2 4 780 778 538
4 3 4 1020 1017 777
5 4 3 1200 1196 1016
6 5 1 1260 1255 1195
PS C:\Users\kavya\My Drive (koduru.kavyasri@gmail.com)\AmritaCollege\2.1_OS_Lab\End_Sem\output> █
```

4)

```
PS C:\Users\kavya\My Drive (koduru.kavyasri@gmail.com)\AmritaCollege\2.1_OS_Lab\End_Sem\output> & .\'Q4.exe'
Page Reference Frames Status
-----
0 [0 ] Fault
1 [0 1 ] Fault
2 [0 1 2 ] Fault
3 [3 1 2 ] Fault

Total Page Hits: 0
Total Page Faults: 4
PS C:\Users\kavya\My Drive (koduru.kavyasri@gmail.com)\AmritaCollege\2.1_OS_Lab\End_Sem\output> █
```

5)

```
PS C:\Users\kavya\My Drive (koduru.kavyasri@gmail.com)\AmritaCollege\2.1_OS_Lab\End_Sem\output> & .\'Q5.exe'
Deadlock detected! Not all jobs can be completed.
█
```