```
#include<stdio.h>
#include<unistd.h>

int main(){
    printf("Hello World! \n");
    fork();
    printf("I am after forking");
    printf("\t I am process %d. \n" ,getpid());
    return 0;
}
```

```
#include<stdio.h>
#include<stdib.h>
#include<unistd.h>
#include<pthread.h>

void*ThreadFun(void*tid){
long*ThreadID=(long*)tid;
printf("Hello World! \n This is a Thread %ld \n",*ThreadID);
}

int main(){
pthread_t tid0;
pthread_t tid1;
pthread_t tid2;
pthread_t *pthread[]={&tid0,&tid1,&tid2};

for(int i=0;i<3;i++){
pthread_create(pthread[i],NULL,ThreadFun,(void*)pthread[i]);
}

pthread_exit(NULL);
return 0;
}</pre>
```

```
[bichitra@parrot] = [~/Documents/oslab]
  ➡ $gcc -o lab3.out lab3.c
 -[bichitra@parrot] - [~/Documents/oslab]
  - $./lab3.out
enter total number of processes(maximum 20):6
Enter Process Burst Time
[1]:2
[2]:4
P[3]:1
[4]:6
P[5]:3
P[6]:5
                               Turnaround Time Waiting Time
Process
               Burst Time
[1]
[2]
P[3]
[4]
                                                 13
[5]
                                 13
[6]
                                                 21
Average Waiting Time:7
Average Turnaround Time:10Name:Bichitra Gautam Roll:29008 4th sem <mark>—[bichitra@parrot]—[</mark>
 -[bichitra@parrot]-[~/Documents/oslab]
    $
```

```
[bichitra@parrot] = [~/Documents/oslab]
 -- $./lab4.out
Enter number of process:6
Enter Burst Time:
p1:4
p2:6
p3:5
p4:3
p5:2
p6:2
Process Burst Time Waiting Time Turnaround Time
р5
р6
р4
                 4
р1
                                                        11
р3
                                 11
                                                        16
p2
                 6
                                 16
                                                        22
Average Waiting Time=6.666667
Average Turnaround Time=10.333333
Name:Bichitra Gautam Roll:29008 4th sem_[bichitra@parrot]-[~/Documents/oslab]
```

```
[bichitra@parrot]-[~/Documents/oslab]
  - $./lab5.out
Enter Total Process:
Enter Arrival Time and Burst Time for Process Process Number 1 :1 5
Enter Arrival Time and Burst Time for Process Process Number 2 :2 7
Enter Arrival Time and Burst Time for Process Process Number 3 :3 8
Enter Arrival Time and Burst Time for Process Process Number 4 :5 6
Enter Arrival Time and Burst Time for Process Process Number 5 :4 3
Enter Arrival Time and Burst Time for Process Process Number 6 :6 8
Enter Arrival Time and Burst Time for Process Process Number 7 :7 9
Enter Arrival Time and Burst Time for Process Process Number 8 :9 7
Enter Time Quantum: 2
Process |Turnaround Time|Waiting Time
P[5]
                                18
P[1]
                                26
                                27
P[4]
                33
P[2]
                43
P[3]
                                36
P[6]
                                35
[8]
                                36
P[7]
```

Average Waiting Time= 31.375000

-- \$

Avg Turnaround Time = 38.000000Name:Bichitra Gautam Roll:29008 4th sem_[bichitra@parrot]-[~/Documents/oslab]

```
[bichitra@parrot]=[~/Documents/oslab]
  - $./lab7.out
Enter number of frames: 3
Enter number of pages: 10
Enter page reference string: 2 3 4 2 1 3 7 5 4 3
[otal Page Faults = 6Name:Bichitra Gautam Roll:29008 4th sem [bichitra@parrot] [~/Documents/oslab]
```

```
-[bichitra@parrot]-[~/Documents/oslab]
  - $./lab9.out
Enter the max range of disk
200
Enter the initial head position
Enter the size of queue request
Enter the queue of disk positions to be read
55
66
Disk head moves from 22 to 55 with seek 33
Disk head moves from 55 to 66 with seek 11
Disk head moves from 66 to 200 with seek 134
Disk head moves from 200 to 0 with seek 200
Disk head moves from 0 to 21 with seek 21
Total seek time is 399
Average seek time is 133.000000
Name:Bichitra Gautam Roll:29008 4th sem<code>[bichitra@parrot]=[~/Documents/oslab]</code>
 -- $
```

```
-[bichitra@parrot]-[~/Documents/oslab]
 → $./lab10.out
Enter the number of Requests
Enter the Requests sequence
44
Enter initial head position
Enter total disk size
450
Enter the head movement direction for high 1 and for low 0
Total head movement is 98
Name:Bichitra Gautam Roll:29008 4th sem<code>[bichitra@parrot]=[~/Documents/oslab]</code>
```