

Result of FCFS_Diskschduling

```
C:\Users\Bimal Acharya\Desktop\Opereting System\FCFSDiskScheduling.exe
Enter the current position: 50
Enter the number of requests: 5
Enter the request order: 82
170
43
140
24
50 -> 82 -> 170 -> 43 -> 140 -> 24
Total head movement = 460
```

Result of SJF

```
C:\Users\Bimal Acharya\Desktop\Opereting System\SJF.exe
Enter the Number of Processes:4
Enter brust time:Processs 1:
Brust Time:6
Processs 2:
Brust Time:8
Processs 3:
Brust Time:7
Processs 4:
Brust Time:3
PROCESS BRUST TIME    WAITING TIME    TURNAROUND TIME
4                3                65522          65525
1                6                65525          65531
3                7                65531          65538
2                8                65538          65546

Average waiting time: 65529.000000
Average Turnaround time: 65535.000000
```

Result of Producer_Consumer

```
C:\Users\Bimal Acharya\Desktop\Opereting System\producer_consumer.exe
Producer 1: Insert Item 41 at 0
Producer 3: Insert Item 41 at 1
Producer 2: Insert Item 41 at 2
Producer 1: Insert Item 67 at 3
Consumer 1: Remove Item 41 from 0
Consumer 2: Remove Item 41 from 1
Producer 3: Insert Item 67 at 4
Consumer 3: Remove Item 41 from 2
Producer 2: Insert Item 67 at 0
Consumer 1: Remove Item 67 from 3
Producer 1: Insert Item 34 at 1
Consumer 2: Remove Item 67 from 4
Producer 3: Insert Item 34 at 2
Consumer 3: Remove Item 67 from 0
Producer 2: Insert Item 34 at 3
Consumer 1: Remove Item 34 from 1
Producer 1: Insert Item 0 at 4
Consumer 2: Remove Item 34 from 2
Producer 3: Insert Item 0 at 0
Consumer 3: Remove Item 34 from 3
Producer 2: Insert Item 0 at 1
Consumer 1: Remove Item 0 from 4
Producer 1: Insert Item 69 at 2
Consumer 2: Remove Item 0 from 0
Producer 3: Insert Item 69 at 3
Consumer 3: Remove Item 0 from 1
Producer 2: Insert Item 69 at 4
Consumer 1: Remove Item 69 from 2
Producer 1: Insert Item 24 at 0
Consumer 2: Remove Item 69 from 3
Producer 3: Insert Item 24 at 1
Consumer 3: Remove Item 69 from 4
Producer 2: Insert Item 24 at 2
Consumer 1: Remove Item 24 from 0
Producer 1: Insert Item 78 at 3
Consumer 2: Remove Item 24 from 1
Producer 3: Insert Item 78 at 4
Consumer 3: Remove Item 24 from 2
```

Result of Barber technique

```
C:\Users\Bimal Acharya\Desktop\Operating System\barber technique.exe
Customer 1: Sitting in waiting room. Waiting = 1
Barber: Taking a customer. Waiting customers = 0
Barber: Cutting hair...
Customer 1: Getting haircut.
Customer 2: Sitting in waiting room. Waiting = 1
Barber: Finished haircut.
Barber: Taking a customer. Waiting customers = 0
Barber: Cutting hair...
Customer 2: Getting haircut.
Customer 3: Sitting in waiting room. Waiting = 1
Customer 4: Sitting in waiting room. Waiting = 2
Barber: Finished haircut.
Barber: Taking a customer. Waiting customers = 1
Barber: Cutting hair...
Customer 3: Getting haircut.
Customer 5: Sitting in waiting room. Waiting = 2
Customer 6: Sitting in waiting room. Waiting = 3
Barber: Finished haircut.
Barber: Taking a customer. Waiting customers = 2
Barber: Cutting hair...
Customer 4: Getting haircut.
Customer 7: Sitting in waiting room. Waiting = 3
Customer 8: No chair available. Leaving.
Barber: Finished haircut.
Barber: Taking a customer. Waiting customers = 2
Barber: Cutting hair...
Customer 5: Getting haircut.
Barber: Finished haircut.
Barber: Taking a customer. Waiting customers = 1
Barber: Cutting hair...
Customer 6: Getting haircut.
Barber: Finished haircut.
Barber: Taking a customer. Waiting customers = 0
Barber: Cutting hair...
Customer 7: Getting haircut.

All customers processed.

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Process exited after 14.08 seconds with return value 0
Press any key to continue . . .
```

Result of Roundrobins

```
C:\Users\Bimal Acharya\Desktop\Operating System\RoundRobin.exe
Enter the number of processes: 4
Burst Time for process 1: 10
Burst Time for process 2: 5
Burst Time for process 3: 8
Burst Time for process 4: 6
Enter quantum size: 3

Process      Burst Time    Waiting Time   Turnaround Time
1            10           19             29
2             5           12             17
3             8           20             28
4             6           17             23

Average waiting time = 17.00
Average turnaround time = 24.25

-----
Process exited after 14.39 seconds with return value 0
Press any key to continue . . .
```

Result of Bankers algorithm

```
C:\Users\Bimal Acharya\Desktop\Operating System\BankersAlgorithm.exe
Enter the number of processes: 5
Enter the number of resources: 3
Enter the available instances of each resource:
Resource 1: 3
Resource 2: 3
Resource 3: 2
Enter the maximum claim for each process:
Process 1:
Resource 1: 7
Resource 2: 5
Resource 3: 3
Process 2:
Resource 1: 3
Resource 2: 2
Resource 3: 2
Process 3:
Resource 1: 9
Resource 2: 0
Resource 3: 2
Process 4:
Resource 1: 2
Resource 2: 2
Resource 3: 2
Process 5:
Resource 1: 4
Resource 2: 3
Resource 3: 3
Enter the allocation for each process:
Process 1:
Resource 1: 0
Resource 2: 1
Resource 3: 0
Process 2:
Resource 1: 2
Resource 2: 0
Resource 3: 0
Process 3:
Resource 1: 3
Resource 2: 0
Resource 3: 2
Process 4:
Resource 1: 2
Resource 2: 1
Resource 3: 1
Process 5:
Resource 1: 4
Resource 2: 3
Resource 3: 3
Enter the allocation for each process:
Process 1:
Resource 1: 0
Resource 2: 1
Resource 3: 0
Process 2:
Resource 1: 2
Resource 2: 0
Resource 3: 0
Process 3:
Resource 1: 3
Resource 2: 0
Resource 3: 2
Process 4:
Resource 1: 2
Resource 2: 1
Resource 3: 1
Process 5:
Resource 1: 0
Resource 2: 0
Resource 3: 2

System is in a safe state and safe sequence is: 2 4 5 1 3
```