

```
sl-1c8@sl1c8-HP-EliteDesk-800-G1-TWR:/media/sl-1c8/CA0B-ABE7/ASS01$ sh 1.sh
```

Student Database

1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT

Enter the Choice

1

File Already Present

Do you Want to Continue (Press 0)

0

Student Database

1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT

Enter the Choice

2

Enter the Regno:22320

Enter the Name:Subham

Enter the Mobile:98245

Record Inserted Successfully

Do you Want to Continue (Press 0)

0

Student Database

1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT

Enter the Choice

2

Enter the Regno:22318

Enter the Name:a

Enter the Mobile:7863

Record Inserted Successfully

Do you Want to Continue (Press 0)

0

Student Database

1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT

Enter the Choice

3

1. All records 2.Top Records 3. Bottom Records

1

1001 Amit 99999

1005 Manish 897879

1008 Rahul 87945

22320 Subham 98245

```
1
1001 Amit 99999
1005 Manish 897879
1008 Rahul 87945
22320 Subham 98245
22318 a 7863
Do you Want to Continue (Press 0)
0
Student Database
1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT
Enter the Choice
4
Enter the Regno:22320
Record Present
22320 Subham 98245
Do you Want to Continue (Press 0)
5
sl-1c8@sl1c8-HP-EliteDesk-800-G1-TWR:/media/sl-1c8/CA0B-ABE7/ASS01$ sh 1.sh
Student Database
1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT
Enter the Choice
5
Enter the Regno:22318
Record Deleted
Do you Want to Continue (Press 0)
0
Student Database
1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT
Enter the Choice
3
1. All records 2.Top Records 3. Bottom Records
1
1001 Amit 99999
1005 Manish 897879
1008 Rahul 87945
22320 Subham 98245
Do you Want to Continue (Press 0)
```

```
sl-1c8@sl1c8-HP-EliteDesk-800-G1-TWR: /media/sl-1c8/CA0B-ABE7/ASS01
1
1001 Amit 99999
1005 Manish 897879
1008 Rahul 87945
22320 Subham 98245
22318 a 7863
Do you Want to Continue (Press 0)
0
Student Database
1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT
Enter the Choice
4
Enter the Regno:22320
Record Present
22320 Subham 98245
Do you Want to Continue (Press 0)
5
sl-1c8@sl1c8-HP-EliteDesk-800-G1-TWR:/media/sl-1c8/CA0B-ABE7/ASS01$ sh 1.sh
Student Database
1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT
Enter the Choice
5
Enter the Regno:22318
Record Deleted
Do you Want to Continue (Press 0)
0
Student Database
1.CREATE 2.INSERT 3.DISPLAY 4. SEARCH 5.DELETE 6.UPDATE 7. EXIT
Enter the Choice
3
1. All records 2.Top Records 3. Bottom Records
1
1001 Amit 99999
1005 Manish 897879
1008 Rahul 87945
22320 Subham 98245
Do you Want to Continue (Press 0)

```

enter total number of processes: 5
enter the details of process: enter arrival time of 1 process: 0
enter burst time of 1 process: 4
enter arrival time of 2 process: 1
enter burst time of 2 process: 2
enter arrival time of 3 process: 3
enter burst time of 3 process: 3
enter arrival time of 4 process: 4
enter burst time of 4 process: 2
enter arrival time of 5 process: 5
enter burst time of 5 process: 1
the avg waiting time is: 2.400000the avg turnaround time is: 4.800000

Enter the total number of processes: 4
Enter the arrival and burst times for each process:
Process 1 Arrival Time: 0
Process 1 Burst Time: 8
Process 2 Arrival Time: 1
Process 2 Burst Time: 4
Process 3 Arrival Time: 2
Process 3 Burst Time: 9
Process 4 Arrival Time: 3
Process 4 Burst Time: 5
Enter time quantum: 2

Process	Burst Time	Arrival Time	Waiting Time	Turnaround Time
1	8	0	15	23
2	4	1	7	11
3	9	2	15	24
4	5	3	13	18

Average Waiting Time: 12.50
Average Turnaround Time: 19.00

...Program finished with exit code 0

3 element is added at location 0
3 element is extracted from location 1
6 element is added at location 1
0 element is extracted from location 3
7 element is added at location 2
0 element is extracted from location 5
5 element is added at location 3
0 element is extracted from location 7
3 element is added at location 4
0 element is extracted from location 9
5 element is added at location 5
3 element is extracted from location 1
6 element is added at location 6
7 element is extracted from location 3
2 element is added at location 7
3 element is extracted from location 5
9 element is added at location 8
6 element is extracted from location 7
1 element is added at location 9
9 element is extracted from location 9
2 element is added at location 0
2 element is extracted from location 1
7 element is added at location 1

|

```
2 Philosopher is eating
4 Philosopher is eating
2 Philosopher eating is over
4 Philosopher eating is over
3 Philosopher is eating
1 Philosopher is eating
3 Philosopher eating is over
1 Philosopher eating is over
0 Philosopher is eating
0 Philosopher eating is over
```

...Program finished with exit code 0