

Lab 2

```
D:\OS labs\lab2.exe  X  +  v

Thread 6487688: Joining the Critical section
Thread 6487688: Going to leave Critical section
Thread 6487692: Joining the Critical section
Thread 6487692: Going to leave Critical section
Thread 6487688: Joining the Critical section
Thread 6487688: Going to leave Critical section
Thread 6487692: Joining the Critical section
Thread 6487692: Going to leave Critical section
Thread 6487688: Joining the Critical section
Thread 6487688: Going to leave Critical section
Thread 6487692: Joining the Critical section
Thread 6487692: Going to leave Critical section
Thread 6487688: Joining the Critical section
Thread 6487688: Going to leave Critical section
Thread 6487692: Joining the Critical section
Thread 6487692: Going to leave Critical section

-----
Process exited after 4.117 seconds with return value 0
Press any key to continue . . . |
```

Lab 3

```
D:\OS labs\lab3.exe  X  +  v

Enter no. of processes:3
Enter the burst time of processes:5 8 12

bt      wt      tt
5        0        5
8        5       13
12       13       25

aw=6.000000
at=14.000000

-----
Process exited after 6.221 seconds with return value 0
Press any key to continue . . . |
```

Lab 4

```
D:\OS labs\lab4.exe
Enter no. of processes:3
Enter the burst time of processes:12 8 5
5812

bt      wt      tt
5        0        5
8        5       13
12       13       25

aw=6.000000
,at=14.000000

-----
Process exited after 6.095 seconds with return value 0
Press any key to continue . . . |
```

Lab 5

```
D:\OS labs\lab5.exe
Enter number of processes:4
Enter burst time for sequences:6 8 7 3
Enter time quantum:3
Process_no      Burst time      Waiting time      Turn around time
1                6                9                15
2                8                15               23
3                7                17               24
4                3                9                12

Average waiting time is 12.500000
Average turn around time is 18.500000
-----
Process exited after 25.09 seconds with return value 0
Press any key to continue . . . |
```

lab 6

```
D:\OS labs\lab6.exe × + ∨

Enter the no of processes:2

Enter the no of resources:2
process 1
maximum value for resource 1:7
maximum value for resource 2:5
allocated from resource 1:0
allocated from resource 2:1
process 2
maximum value for resource 1:3
maximum value for resource 2:2
allocated from resource 1:2
allocated from resource 2:0
Enter total value of resource 1:5
Enter total value of resource 2:7

      max allocated needed total avail
P1      75      01      74      57 36
P2      32      20      12

      Avail Before      Avail After
p2      24      56
deadlock occured
-----
Process exited after 88.96 seconds with return value 0
Press any key to continue . . . |
```

Lab 7

```
D:\OS labs\lab7.exe × + ∨

1.Producer
2.Consumer
3.Exit
Enter your choice:1

Producer produces the item 1
Enter your choice:1

Producer produces the item 2
Enter your choice:1

Producer produces the item 3
Enter your choice:2

Consumer consumes item 3
Enter your choice:1

Producer produces the item 3
Enter your choice:1
Buffer is full!!
Enter your choice:3

-----
Process exited after 79.99 seconds with return value 0
Press any key to continue . . . |
```

Lab 8

```
D:\OS labs\lab8.exe
Enter number of pages: 12
Enter reference string: 1 3 0 3 5 6 3 1 2 1 3 6
Enter number of frames: 3

Reference String      Frames
1                    1 - -
3                    1 3 -
0                    1 3 0
3                    1 3 0
5                    5 3 0
6                    5 6 0
3                    5 6 3
1                    1 6 3
2                    1 2 3
1                    1 2 3
3                    1 2 3
6                    1 2 6

Total Page Faults: 9

-----
Process exited after 13.79 seconds with return value 0
Press any key to continue . . .
```

Lab 9

```
D:\OS labs\lab9.exe
Enter number of pages: 12
Enter reference string: 7 0 1 2 0 3 0 4 2 3 0 3
Enter number of frames: 3

Reference String      Frames
7                    7 - -
0                    0 - -
1                    0 1 -
2                    0 2 -
0                    0 2 -
3                    0 2 3
0                    0 2 3
4                    4 2 3
2                    4 2 3
3                    4 2 3
0                    0 2 3
3                    0 2 3

Total Page Faults: 7

-----
Process exited after 5.191 seconds with return value 0
Press any key to continue . . .
```

Lab 10

```
D:\OS labs\lab10.exe  X  +  v

Enter number of pages: 12
Enter reference string (pages): 7 0 1 2 0 3 0 4 2 3 0 3
Enter number of frames: 3

Reference String      Frames
7                     7 - -
0                     7 0 -
1                     7 0 1
2                     7 2 1
0                     7 2 0
3                     7 2 3
0                     7 0 3
4                     7 4 3
2                     7 4 2
3                     7 4 3
0                     7 4 0
3                     7 4 3

Total Page Faults: 12

-----
Process exited after 5.588 seconds with return value 0
Press any key to continue . . . |
```

Lab 11

```
D:\OS labs\lab11.exe  X  +  v

Enter the initial head position: 50

Enter the number of disk requests: 5

Enter the disk requests:
82

170

43

140

24

Disk Scheduling Order:
50 -> 82 -> 170 -> 43 -> 140 -> 24

Total Seek Time: 460

-----
Process exited after 61.15 seconds with return value 0
Press any key to continue . . . |
```