

CHANAKYA UNIVERSITY

Data Structures and Algorithms

Assignment -02

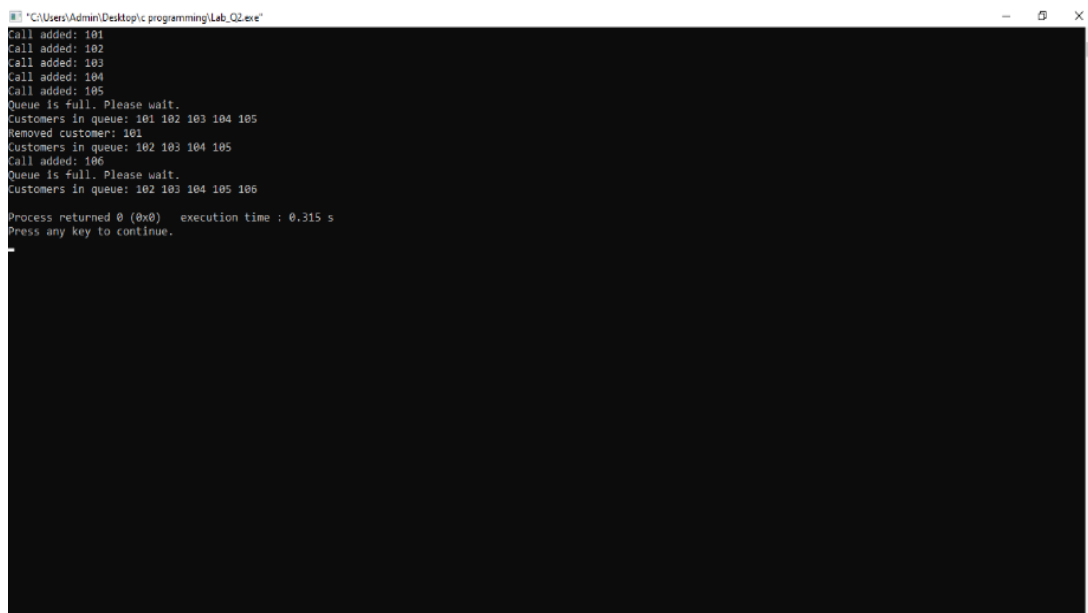
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Lab_Q2 :

OUTPUT:



```
"C:\Users\Admin\Desktop\programming\Lab_Q2.exe"
Call added: 101
Call added: 102
Call added: 103
Call added: 104
Call added: 105
Queue is full. Please wait.
Customers in queue: 101 102 103 104 105
Removed customer: 101
Customers in queue: 102 103 104 105
Call added: 106
Queue is full. Please wait.
Customers in queue: 102 103 104 105 106
Process returned 0 (0x0)   execution time : 0.315 s
Press any key to continue.
```

Lab_Q3 :

OUTPUT:

```
"C:\Users\Admin\Desktop\c programming\Lab_Q3.exe"
Performed operation: op1
Performed operation: op2
Performed operation: op3
Undo. Next Operation that can be undone is = op2
Undo. Next Operation that can be undone is = op1
Redo completed. Next Operation that can be redone is = op3
Performed operation: op4
Undo. Next Operation that can be undone is = op2
Process returned 0 (0x0)   execution time : 0.376 s
Press any key to continue.
```

Theory_Q1 :

OUTPUT:

```
Select "C:\Users\Admin\Desktop\c programming\Theory_Q1.exe"
Enter number of members: 1
Enter name of member 1: Navya
Enter 30 daily step counts:
11000 9800 12000 8000 9500 10200 8700 9800 15000 8000
10000 9400 7600 13400 18050 8200 9400 11000 10700 9500
10000 12000 8000 9500 9100 10000 9700 10400 8500 9800

Member: Navya
Days with >10,000 steps: 10
Maximum steps in a day: 15000
Process returned 0 (0x0)   execution time : 66.476 s
Press any key to continue.
```

Theory_Q2:

OUTPUT:

```
"C:\Users\Admin\Desktop\c programming\Theory_Q2.exe"
Enter number of songs: 7
Enter song ID 1: 101
Enter song ID 2: 102
Enter song ID 3: 103
Enter song ID 4: 104
Enter song ID 5: 105
Enter song ID 6: 106
Enter song ID 7: 107
Enter a and n (positions to reverse): 2 5
Original Playlist: 101 -> 102 -> 103 -> 104 -> 105 -> 106 -> 107
Modified Playlist: 101 -> 105 -> 104 -> 103 -> 102 -> 106 -> 107
Process returned 0 (0x0)   execution time : 24.676 s
Press any key to continue.
```

Theory_Q3 :

OUTPUT:

```
"C:\Users\Admin\Desktop\c programming\Theory_Q3.exe"
Enter a string: programming
Level Order Traversal (char, freq):
(p, 1) (r, 2) (o, 1) (g, 2) (a, 1) (m, 2) (i, 1) (n, 1)
Process returned 0 (0x0)   execution time : 8.615 s
Press any key to continue.
```