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Ubuntu x + ~
stne1_ahmed@stne1-PC:~/mnt/c/Users/Lenovo/Desktop$ gcc 011.c
stne1_ahmed@stne1-PC:~/mnt/c/Users/Lenovo/Desktop$ ./a.out

Main Menu:
1. Create DLL of N Employee Data
2. Display DLL and count the nodes
3. Insertion and Deletion at End
4. Insertion and Deletion at Front
5. Demonstrate DLL as Double Ended Queue
6. Exit
Enter your choice: 1
Enter the number of employees: 2

Enter SSN: A101
Enter Name: Neha
Enter Department: IT
Enter Designation: Developer
Enter Salary: 72000
Enter Phone Number: 8745987457

Enter SSN: A102
Enter Name: Rakesh
Enter Department: Finance
Enter Designation: Analyst
Enter Salary: 45888
Enter Phone Number: 9696969696

Doubly Linked List created with 2 employees.

Main Menu:
1. Create DLL of N Employee Data
2. Display DLL and count the nodes
3. Insertion and Deletion at End
4. Insertion and Deletion at Front
5. Demonstrate DLL as Double Ended Queue
6. Exit
Enter your choice: 2

Employee Data in DLL:
-----
SSN: A101 | Name: Neha | Dept: IT | Designation: Developer | Salary: 72000.00 | PhNo: 8745987457
SSN: A102 | Name: Rakesh | Dept: Finance | Designation: Analyst | Salary: 45888.00 | PhNo: 9696969696
-----
Total number of employees: 2

Main Menu:
1. Create DLL of N Employee Data
2. Display DLL and count the nodes
3. Insertion and Deletion at End
4. Insertion and Deletion at Front
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- 3. Insertion and Deletion at End
 - 4. Insertion and Deletion at Front
 - 5. Demonstrate DLL as Double Ended Queue
 - 6. Exit
- Enter your choice: 3

End Operations:

- 1. Insert at End
 - 2. Delete from End
- Enter your choice: 1

Enter SSN: A163

Enter Name: Manoj

Enter Department: Sales

Enter Designation: Senior Executive

Enter Salary: 48000

Enter Phone Number: 6516516513

Employee data inserted at the end.

Main Menu:

- 1. Create DLL of N Employee Data
 - 2. Display DLL and count the nodes
 - 3. Insertion and Deletion at End
 - 4. Insertion and Deletion at Front
 - 5. Demonstrate DLL as Double Ended Queue
 - 6. Exit
- Enter your choice: 4

Front Operations:

- 1. Insert at Front
 - 2. Delete from Front
- Enter your choice: 1

Enter SSN: A160

Enter Name: Arjun

Enter Department: Operations

Enter Designation: Supervisor

Enter Salary: 52000

Enter Phone Number: 3753653256

Employee data inserted at the front.

Main Menu:

- 1. Create DLL of N Employee Data
- 2. Display DLL and count the nodes
- 3. Insertion and Deletion at End
- 4. Insertion and Deletion at Front
- 5. Demonstrate DLL as Double Ended Queue
- 6. Exit

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Enter your choice: 2  
Employee Data in DLL:  
-----  
SSN: A100 | Name: Arjun | Dept: Operations | Designation: Supervisor | Salary: 52888.88 | PhNo: 3253653256  
SSN: A101 | Name: Neha | Dept: IT | Designation: Developer | Salary: 72888.88 | PhNo: 8745987457  
SSN: A102 | Name: Rakesh | Dept: Finance | Designation: Analyst | Salary: 45888.88 | PhNo: 9696969696  
SSN: A103 | Name: Manoj | Dept: Sales | Designation: Senior Executive | Salary: 48888.88 | PhNo: 6516516513  
-----  
Total number of employees: 4  
  
Main Menu:  
1. Create DLL of N Employee Data  
2. Display DLL and count the nodes  
3. Insertion and Deletion at End  
4. Insertion and Deletion at Front  
5. Demonstrate DLL as Double Ended Queue  
6. Exit.  
Enter your choice: 3  
  
End Operations:  
1. Insert at End  
2. Delete from End  
Enter your choice: 2  
  
Employee data deleted from the end.  
  
Main Menu:  
1. Create DLL of N Employee Data  
2. Display DLL and count the nodes  
3. Insertion and Deletion at End  
4. Insertion and Deletion at Front  
5. Demonstrate DLL as Double Ended Queue  
6. Exit.  
Enter your choice: 4  
  
Front Operations:  
1. Insert at Front  
2. Delete from Front  
Enter your choice: 2  
  
Employee data deleted from the front.  
  
Main Menu:  
1. Create DLL of N Employee Data  
2. Display DLL and count the nodes  
3. Insertion and Deletion at End  
4. Insertion and Deletion at Front  
5. Demonstrate DLL as Double Ended Queue  
6. Exit.
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Enter your choice: 2

Employee Data in DLL:

SSN: A101 | Name: Neha | Dept: IT | Designation: Developer | Salary: 72888.88 | PhNo: 8745987457
SSN: A102 | Name: Rakesh | Dept: Finance | Designation: Analyst | Salary: 45888.88 | PhNo: 9696969696

Total number of employees: 2

Main Menu:

1. Create DLL of N Employee Data
2. Display DLL and count the nodes
3. Insertion and Deletion at End
4. Insertion and Deletion at Front
5. Demonstrate DLL as Double Ended Queue
6. Exit

Enter your choice: 5

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End
5. Display
6. Go back to Main Menu

Enter your choice: 1

Enter SSN: B101

Enter Name: Priya

Enter Department: IT

Enter Designation: Tester

Enter Salary: 60000

Enter Phone Number: 2542142541

Employee data inserted at the front.

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End
5. Display
6. Go back to Main Menu

Enter your choice: 2

Enter SSN: B102

Enter Name: Suresh

Enter Department: Logistics

Enter Designation: Coordinator

Enter Salary: 51000



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Enter Salary: 51000
Enter Phone Number: 2032032031

Employee data inserted at the end.

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End
5. Display
6. Go back to Main Menu

Enter your choice: 5

Employee Data in DLL:

```
SSN: B101 | Name: Priya | Dept: IT | Designation: Tester | Salary: 60000.00 | PhNo: 2512142511
SSN: A101 | Name: Neha | Dept: IT | Designation: Developer | Salary: 72000.00 | PhNo: 8745987457
SSN: A102 | Name: Rakesh | Dept: Finance | Designation: Analyst | Salary: 45000.00 | PhNo: 9696969696
SSN: B102 | Name: Suresh | Dept: Logistics | Designation: Coordinator | Salary: 51000.00 | PhNo: 2832832831
```

Total number of employees: 4

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End
5. Display
6. Go back to Main Menu

Enter your choice: 3

Employee data deleted from the front.

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End
5. Display
6. Go back to Main Menu

Enter your choice: 4

Employee data deleted from the end.

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End

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6. Go back to Main Menu
Enter your choice: 3

Employee data deleted From the Front.

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End
5. Display
6. Go back to Main Menu

Enter your choice: 4

Employee data deleted From the end.

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End
5. Display
6. Go back to Main Menu

Enter your choice: 5

Employee Data in DLL:

SSN: A101 | Name: Neha | Dept: IT | Designation: Developer | Salary: 72000.00 | PhNo: 8745987457
SSN: A102 | Name: Rakesh | Dept: Finance | Designation: Analyst | Salary: 45888.88 | PhNo: 9696969696

Total number of employees: 2

Double Ended Queue Operations:

1. Insert at Front
2. Insert at End
3. Delete from Front
4. Delete from End
5. Display
6. Go back to Main Menu

Enter your choice: 6

Main Menus:

1. Create DLL of N Employee Data
2. Display DLL and count the nodes
3. Insertion and Deletion at End
4. Insertion and Deletion at Front
5. Demonstrate DLL as Double Ended Queue
6. Exit

Enter your choice: 6

Exiting the program.