```
int main()

int no, ch, e;

int no, ch, e;

printf("\n 1 - Enque");
printf("\n 2 - Deque");
printf("\n 3 - Display");
printf("\n 4 - Exit");
create();

int main()

printf("\n 4 - Exit");
printf("\n Enter choice : ");

scanf("\d", 6ch);
switch (ch)
{
    case 1:
        printf("Enter data : ");
        scanf("\d", 6no);
        enq(no);
        break;
    case 2:

deq();
        break;
case 3:

display();
        break;
case 4:
        exit(0);
default:
        printf("Wrong choice, Please enter correct choice ");
        break;
}

return 0;
}
```

```
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83
      void create()
           front = rear = NULL;
      void eng(int data)
           if (rear == NULL)
                rear = (struct node *)malloc(1*sizeof(struct node));
                rear->ptr = NULL;
                rear->info = data;
                front = rear;
                temp=(struct node *)malloc(1*sizeof(struct node));
                rear->ptr = temp;
                temp->info = data;
                temp->ptr = NULL;
                rear = temp;
           }
      }
```

```
\blacktriangleleft \blacktriangleright
             ButtonList.' TextFieldDemo.java
                                                     threads.java
         void display()
  85
  86
        {
             front1 = front;
  87
  88
             if ((front1 == NULL) && (rear == NULL))
  89
  90
                  printf("Queue is empty");
  91
  92
                  return;
  93
             while (front1 != rear)
  94
  95
                  printf("%d ", front1->info);
  96
                  front1 = front1->ptr;
  97
  98
             if (front1 == rear)
  99
                  printf("%d", front1->info);
 100
 101
        }
 102
```

```
104
       void deq()
105
106
           front1 = front;
107
108
           if (front1 == NULL)
109
110
               printf("\n queue is empty");
111
               return;
112
           }
           else
113
               if (front1->ptr != NULL)
114
115
116
                   front1 = front1->ptr;
                   printf("\n Dequed value : %d", front->info);
117
118
                   free(front);
119
                   front = front1;
               }
120
               else
{
121
122
123
                   printf("\n Dequed value : %d", front->info);
124
                   free(front);
125
                   front = NULL;
126
                   rear = NULL;
127
               }
128
129
      }
130
131
132
133
```

```
1 - Enque
 2 - Deque
 3 - Display
 4 - Exit
Enter choice : 1
Enter data : 22
Enter choice: 1
Enter data : 55
Enter choice: 1
Enter data : 33
Enter choice : 2
Dequed value : 22
Enter choice: 3
55 33
Enter choice: 4
... Program finished with exit code 0
Press ENTER to exit console.
```

```
#include<stdio.h>
     #include<stdlib.h>
     struct node
     {
          int info;
         struct node *ptr;
     }*top,*top1,*temp;
     void push(int data);
     void pop();
     void display();
11
     void create();
13
     int main()
          int no, ch, e;
          printf("\n 1 - Push");
20
          printf("\n 2 - Pop");
21
          printf("\n 3 - Dipslay");
          printf("\n 4 - Exit");
24
          create();
          while (1)
28
              printf("\n Enter choice : ");
              scanf("%d", &ch);
30
              switch (ch)
              {
33
                  printf("Enter data : ");
                  scanf("%d", &no);
36
                  push(no);
                  pop();
                  break;
```

```
case 3:
                   display();
              break; case 4:
              exit(0);
default
                  printf(" Wrong choice, Please enter correct choice ");
51
52
53
54
55
56
57
      void create()
          top = NULL;
58
59
      void push(int data)
           if (top == NULL)
               top =(struct node *)malloc(1*sizeof(struct node));
               top->ptr = NULL;
               top->info = data;
               temp =(struct node *)malloc(1*sizeof(struct node));
               temp->ptr = top;
               temp->info = data;
               top = temp;
```

```
1 - Push
2 - Pop
3 - Dipslay
4 - Exit
Enter choice : 1
nter data : 22
Enter choice : 1
nter data : 55
Enter choice : 1
nter data : 33
Enter choice : 2
Popped value: 33
Enter choice: 3
5 22
Enter choice : 4
.. Program finished with exit code 0
ress ENTER to exit console.
```