

```
1  #include<stdio.h>
2  #include<conio.h>
3  #include<stdlib.h>
4  #define SIZE 5
5
6  int queue[SIZE], front = -1, rear = -1;
7
8  void enQueue(int value)
9  {
10     if(rear == SIZE-1)
11         printf("\nQueue is Full!!! Insertion is not
12             possible!!!");
13     else
14     {
15         if(front == -1)
16         {
17             front = 0;
18         }
19         else
20         {
21             rear++;
22         }
23         queue[rear] = value;
24         printf("\nInsertion success!!!");
25     }
26 }
27 void deQueue(){
28     if(front == rear)
29         printf("\nQueue is Empty!!! Deletion is not
30             possible!!!");
31     else{
32         printf("\nDeleted : %d", queue[front]);
33         front++;
34         if(front == rear)
35             front = rear = -1;
36     }
37 }
38 void display(){
39     if(rear == -1)
40         printf("\nQueue is Empty!!!");
41     else{
42         int i;
43         printf("\nQueue elements are:\n");
44         for(i=front; i<=rear; i++)
45             printf("%d\t",queue[i]);
46     }
47 }
```

```
46
47 void main()
48 {
49     int value, choice;
50     //clrscr();
51     while(1){
52         printf("\n\n***** MENU *****\n");
53         printf("1. Insertion\n2. Deletion\n3. Display\n4. Exit"
54             );
55         printf("\nEnter your choice: ");
56         scanf("%d",&choice);
57         switch(choice){
58             case 1: printf("Enter the value to be insert: ");
59                     scanf("%d",&value);
60                     enqueue(value);
61                     break;
62             case 2: dequeue();
63                     break;
64             case 3: display();
65                     break;
66             case 4: exit(0);
67             default: printf("\nWrong selection!!! Try again!!!");
68                     }
69     }
70
71
```