```
    }
    else
    {
        printf("Element deleted from the queue is %d\n",queue[front]);
        front=front+1;
    }
}


void display()
{
    int i;
    if(front==-1)
    printf("Queue is empty\n");
    else
    {
        printf("Queue is: ");
        for(i=front;i<=rear;i++)
            printf("%d \t",queue[i]);
            printf("\n");
    }
}
```

```c
#include<stdio.h>
#include<stdlib.h>
#define size 50

int queue[size];
int rear=-1;
int front=-1;

void insert()
{
    int x;
    if(rear==size-1)
    printf("Queue overflow\n");
    else
    {
        if(front==-1)
        front=0;
        printf("Insert an element in queue: ");
        scanf("%d",&x);
        rear=rear+1;
        queue[rear] = x;
    }
}


void delete()
{

    if(front==-1 || front>rear)
    {
        printf("queue is underflow\n");
        return;
    }
```

```
55
56
57  void main()
58  {
59      int ch;
60      while(1)
61      {
62          printf("\n");
63      printf("1:Insert an element\n");
64      printf("2:Delete an element\n");
65      printf("3:Display an element\n");
66      printf("4:Exit \n");
67      printf("Enter your choice\n");
68      scanf("%d",&ch);
69      switch(ch)
70      {
71          case 1:
72          insert();
73          break;
74
75          case 2:
76          delete();
77          break;
78
79          case 3:
80          display();
81          break;
82
83          case 4:
84          exit(1);
85          break;
86
87          default:
```

```
87                default:
88                printf("Wrong choice\n");
89                 }
90            }
91    }
```

```
1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
1
Insert an element in queue: 6

1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
1
Insert an element in queue: 8

1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
3
Queue is: 6     8

1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
2
Element deleted from the queue is 6

1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
3
```

```
1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
1
Insert an element in queue: 8

1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
3
Queue is: 6     8

1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
2
Element deleted from the queue is 6

1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
3
Queue is: 8

1:Insert an element
2:Delete an element
3:Display an element
4:Exit
Enter your choice
4
```