Program:

```
#include <iostream>
#define MAX 10
using namespace std;
struct queue
{
    int data[MAX];
    int front, rear;
};
class Queue
    struct queue q;
public:
    Queue() { q.front = q.rear = -1; }
    int IsEmpty();
    int IsFull();
    void Enqueue(int);
    int Delqueue();
    void Display();
};
int Queue::IsEmpty()
    return (q.front == q.rear) ? 1 : 0;
int Queue::IsFull()
{
    return (q.rear == MAX - 1) ? 1 : 0;
void Queue::Enqueue(int x)
{
    q.data[++q.rear] = x;
}
int Queue::Delqueue()
{
    return q.data[++q.front];
void Queue::Display()
{
    int i;
    cout << "\n";
    for (i = q.front + 1; i <= q.rear; i++)</pre>
        cout << q.data[i] << ", ";</pre>
}
int main()
{
    Queue obj;
    int ch, x;
    do
    {
        cout << "\n* * * * * * * * *;
        cout << "\n* 1.Insert Job
        cout << "\n* 2.Delete Job</pre>
```

```
cout << "\n* 3.Display</pre>
    cout << "\n* 4.Exit</pre>
    cout << "\n* * * * * * * * *;
    cout << "\nEnter your choice: ";</pre>
    cin >> ch;
    switch (ch)
    {
    case 1:
         if (!obj.IsFull())
             cout << "\n Enter Data: ";</pre>
             cin >> x;
             obj.Enqueue(x);
         }
        else
             cout << "Queue is overflow";</pre>
         break;
    case 2:
         if (!obj.IsEmpty())
             cout << "\n Deleted Element= " << obj.Delqueue();</pre>
         else
         {
             cout << "\n Queue is underflow";</pre>
         cout << "\nRemaining jobs :";</pre>
         obj.Display();
         break;
    case 3:
         if (!obj.IsEmpty())
             cout << "\n Queue contains:";</pre>
             obj.Display();
         }
         else
             cout << "\n Queue is empty";</pre>
         break;
    case 4:
         cout << "\n Exit";</pre>
} while (ch != 4);
return 0;
```

}

Output:



