```
#include<iostream>
using namespace std;
#define max 5
int queue[max];
int front=-1;
int rear=-1;
void enqueue(int element)
{
   if((front==-1)&&(rear==-1))
   {
      front=0;
      rear=0;
      queue[rear]=element;
   }
   else if((rear+1)%max==front)
   {
      cout<<"Queue is overflow";
   }
   else
   {
      rear=(rear+1)%max;
      queue[rear]=element;
   }
}
void dequeue()
{
   if((front==-1)&&(rear==-1))
   {
      cout<<"Queue is underflow";
   }
   else if(front==rear)
```

```
    {
        cout<<"\nDequeued element is"<<queue[front];
        front=-1;
        rear=-1;
    }
    else
    {
        cout<<"\nDequeued element"<<queue[front];
        front=(front+1)%max;
    }
}
void display()
{
    int i=front;
    if((front==-1)&&(rear==-1))
    {
        cout<<"Queue is empty";
    }
    else
    {
        cout<<"Elements in queue are";
        for(i=front;i!=rear;i=(i+1)%max)
        {
            cout<<queue[i]<<" ";
        }
        cout<<queue[i]<<" ";
    }
}
int main()
{
    int choice=1,x;
```

```
    while(choice<4&&choice!=0)
    {
        cout<<"\nPress 1:Insert element";
        cout<<"\nPress 2:Delete element";
        cout<<"\nPress 3:Display element";
        cout<<"\nEnter your choice";
        cin>>choice;
        switch(choice)
        {
            case 1:
            {
                cout<<"Enter element which is to be inserted";
                cin>>x;
                enqueue(x);
                break;
            }
            case 2:
            dequeue();
            break;
            case 3:
            display();
        }
    }
    return 0;
}
```