```
#include<iostream>
               std;

// Circular Queue Using Class

#define max 10

      Cq{
    int cq[max], front, rear;

          :
    Cq(){
        front = -1; rear = -1;
    }
    void enqueue(){
        int val;
          ((front == 0 && rear == max-1)||(front == rear+1 )){
            cout<<"Queue Overflow";
                  ;
        }
            {
            cout<<"Enter the value : ";
            cin>>val;
              (front == -1){
                front = 0;
                rear = 0;
            }
                {
                  (rear == max -1)
                    rear = 0;

                    rear++;
            }
            cq[rear] = val;
        }
    }

    void dequeue(){
          (front == -1){
            cout<<"Queue Underflow";
                  ;
        }

            {
            cout<<"Deleted element : "<<cq[front];
              (front == rear){
                front = -1;
                rear = -1;
            }
                {
                  (front == max-1)
                    front = 0;

                    front++;
            }
        }
    }

    void display(){
        int i;
          (front == -1)
            cout<<"Queue is Empty";
            {
            cout<<"Element : ";
            i = front;
              (front<= rear){
                     (i <= rear){
```

```
                    cout<<cq[i]<<" ";
                    i++;
                }

            }
                {
                     (i <= max -1 )
                    cout<<cq[i++]<<" ";
                    i=0;
                     (i<=rear)
                    cout<<cq[i++]<<" ";

            }
        }
    }
};

int main(){

    Cq cq;
    int ch;

      {
        cout<<"\n1 Insert\n";
        cout<<"2 Delete\n";
        cout<<"3 Display\n";
        cout<<"4 Exit\n";
        cout<<"Enter your choice : ";
        cin>>ch;
              (ch){
                 1:
                cq.enqueue();
                     ;
                 2:
                cq.dequeue();
                     ;
                 3:
                cq.display();
                     ;
                 4:
                exit(0);
                     ;
                   :
                cout<<"Wrong Choice";

        }
    }     (ch != 4);


           0;
}
```