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#include<iostream>
#include<stdlib.h>

//Queue With Class

using namespace std;
#define max 10

class Queue{

    int queue[max], rear = -1, front = -1;

public:

    void enqueue(){
        int val;
        if(rear >= max-1)
            cout<<"Overflow"<<endl;
        else{
            if(front == -1){
                front = 0;
            }
            cout<<"Enter the value : ";
            cin>>val;
            rear++;
            queue[rear] = val;
        }
    }

    void dequeue(){
        if(front == -1 || front > rear)
            cout<<"Underflow"<<endl;
        else{
            cout<<"Deleted element"<<queue[front];
            front++;
        }
    }

    void display(){
        int i;
        if(front == -1 || front > rear)
            cout<<"Queue is empty";
        else{
            cout<<"Queue Element : ";
            for(i = front; i<= rear; i++){
                cout<<queue[i]<<" ";
            }
        }
    }
};

int main(){
    int ch;

    Queue q;

    do{
        cout<<endl;
        cout<<"1 EnQueue"<<endl;
        cout<<"2 DeQueue"<<endl;
        cout<<"3 Display"<<endl;
        cout<<"4 Exit"<<endl;
        cout<<"Enter your choice : ";
        cin>>ch;
```

```
    switch(ch){
        case 1:
            //cout<<"Enter the value to be inserted : ";
            //cin>>val;
            q.enqueue();
            break;
        case 2:
            q.dequeue();
            break;
        case 3:
            q.display();
            break;
        case 4:
            exit(0);
            break;
        default:
            cout<<"Wrong Choice";
    }

}while(ch != 4);

return 0;
}
```