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//DSL Lab 11 Job Queue
#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] << " ";
int main()
       Queue obj;
        int ch,x;
               cout<<"\n 1. insert job\n 2.delete job\n 3.display\n 4.Exit\n</pre>
        do{
Enter your choice:";
               cin>>ch;
        switch(ch)
        { case 1: if (!obj.isfull())
                      cout<<"\n Enter data:";
                   {
                        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
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{ 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>
         break;
      }while(ch!=4);
return 0;
}
```