/\* LAB ASSIGNMENT 12

Name: Akansha Sonar

Roll no:C23373

Batch: S12

Write C++ program for simulating job queue. Write functions to add job and delete job from queue.

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#include <iostream>

using namespace std;

class Queue

{

public:

const static int size = 10;

int start = -1;

int end = -1;

int array[size];

void push(int x)

{

if(end == size-1)

{

cout<<"Queue Overflow!!!"<<endl;

}

array[++end] = x;

}

int pop()

{

if(start == end)

{

cout<<"Queue Underflow!!"<<endl;

return -1;

}

return array[++start];

}

void display()

{

if(start == end)

{

cout<<"Queue is empty!!";

}

cout<<"Queue contains: ";

for(int i = start+1; i<= end; i++)

{

cout<<array[i]<<" ";

}

cout<<endl;

}

};

void add\_job(Queue &q, int job)

{

q.push(job);

}

void delete\_job(Queue &q)

{

q.pop();

}

int main()

{

Queue job\_line;

add\_job(job\_line , 1);

add\_job(job\_line , 10);

add\_job(job\_line , 100);

add\_job(job\_line , 1000);

job\_line.display();

delete\_job(job\_line);

delete\_job(job\_line);

job\_line.display();

}