package com.greatlearning.queue;

public class Queue {

private int maxSize;

int front;

int rear;

int arr[];

public Queue(int sizeOfQueue) {

this.maxSize = sizeOfQueue;

front = -1;

rear = -1;

arr = new int[maxSize];

}

public boolean isFull() {

if (rear == maxSize - 1) {

return true;

}

return false;

}

public boolean isEmpty() {

if (front == -1) {

return true;

}

return false;

}

public void enqueue(int data) {

if (!isFull()) {

rear++;

arr[rear] = data;

if (front == -1)

front = 0;

} else {

System.out.println("Queue overflow");

}

}

public void dequeue() {

if (isEmpty()) {

System.out.println("queue underflow");

}

else {

System.out.println(arr[front] + "deleted");

}

if (front == rear) {

front = -1;

rear = -1;

} else

front++;

}

public static void main(String a[]) {

Queue queue = new Queue(2);

queue.enqueue(43);

queue.enqueue(32);

queue.dequeue();

queue.dequeue();

queue.enqueue(32);

queue.enqueue(232);

queue.dequeue();

queue.dequeue();

queue.enqueue(43);

queue.enqueue(32);

queue.enqueue(43);

queue.enqueue(32);

queue.dequeue();

queue.dequeue();

queue.dequeue();

queue.dequeue();

}

}