```
Write a Java program to implement Queue Using Array And Class public class QueueUsingArrayMain {
```

```
private int capacity;
int queueArr[];
int front;
int rear;
int currentSize = 0;
public QueueUsingArrayMain(int sizeOfQueue) {
        this.capacity = sizeOfQueue;
        front = 0;
        rear = -1;
        queueArr = new int[this.capacity];
}
public void enqueue(int data) {
        if (isFull()) {
                System.out.println("Queue is full!! Can not add more elements");
        } else {
                 rear++;
                if (rear == capacity - 1) {
                         rear = 0;
                 }
```

```
queueArr[rear] = data;
                currentSize++;
                System.out.println(data + " added to the queue");
        }
}
public void dequeue() {
        if (isEmpty()) {
                System.out.println("Queue is empty!! Can not dequeue element");
        } else {
                front++;
                if (front == capacity - 1) {
                        System.out.println(queueArr[front - 1] + " removed from the queue");
                        front = 0;
                } else {
                        System.out.println(queueArr[front - 1] + " removed from the queue");
                }
                currentSize--;
        }
}
public boolean isFull() {
        if (currentSize == capacity) {
```

```
return true;
       }
       return false;
}
public boolean isEmpty() {
       if (currentSize == 0) {
               return true;
       }
       return false;
}
public static void main(String a[]) {
       QueueUsingArrayMain queue = new QueueUsingArrayMain(5);
       queue.enqueue(6);
       queue.dequeue();
       queue.enqueue(3);
       queue.enqueue(99);
       queue.enqueue(56);
       queue.dequeue();
       queue.enqueue(43);
       queue.dequeue();
```

```
queue.enqueue(89);
queue.enqueue(77);
queue.dequeue();
queue.enqueue(32);
queue.enqueue(232);
}
```

```
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 Stare Source File STDIN return true;
                                                                                                                                                             ı.lı Result
                                                                                                                                                               $javac QueueUsingArrayMain.java
                          return false;
                                                                                                                                                                $java -Xmx128M -Xms16M QueueUsingArrayMain
                                                                                                                                                               6 added to the queue
6 removed from the queue
3 added to the queue
99 added to the queue
56 added to the queue
37 removed from the queue
43 added to the queue
43 added to the queue
43 added to the queue
45 removed from the queue
56 removed from the queue
52 added to the queue
232 added to the queue
                  public boolean isEmpty() {
                         if (currentSize == 0) {
   return true;
                  public static void main(String a[]) {
                        QueueUsingArrayMain queue = new QueueUsingArrayMain(5);
queue.enqueue(6);
queue.enqueue(1);
queue.enqueue(2);
queue.enqueue(99);
queue.enqueue(56);
queue.enqueue(56);
queue.dequeue();
queue.dequeue();
queue.dequeue();
queue.enqueue(43);
queue.enqueue(32);
queue.enqueue(32);
queue.enqueue(32);
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