```
private int front; // front represents the index position of the first element in the queue
        private int rear; // rear represents the index position of the last element in the queue
        private int maxSize; // maxSize represent the maximum number of elements that can be
stored in the queue
        private String arr[];
        Queue(int maxSize) {
                this.front = 0; // front is 0 when the queue is created
                this.rear = -1; // rear is -1 when the queue is created
                this.maxSize = maxSize;
                this.arr = new String[maxSize];
        }
        //Checking if the queue is full or not
        public boolean isFull() {
                if (rear == maxSize - 1) {
                        return true;
                }
                return false;
        }
        //Adding a new element to the rear of queue
        public boolean enqueue(String data) {
                if (isFull()) {
                        return false;
                } else {
                        arr[++rear] = data;
```

return true;

}

```
}
        //Displaying all the elements in the queue
        public void display() {
                System.out.println("Displaying queue elements");
                for (int index = front; index <= rear; index++) {</pre>
                        System.out.println(arr[index]);
                }
       }
}
class Tester {
        public static void main(String[] args) {
          Queue queue = new Queue(5);
                System.out.println("Queue created.\n");
    if (queue.enqueue("Joe"))
                        System.out.println("The element is enqueued to the queue!\n");
    else
      System.out.println("Queue is full!\n");
    if (queue.enqueue("Jack"))
                        System.out.println("The element is enqueued to the queue!\n");
    else
      System.out.println("Queue is full!\n");
    if (queue.enqueue("Eva"))
                        System.out.println("The element is enqueued to the queue!\n");
```

```
else
      System.out.println("Queue is full!\n");
    if (queue.enqueue("Mia"))
                       System.out.println("The element is enqueued to the queue!\n");
    else
      System.out.println("Queue is full!\n");
    if (queue.enqueue("Luke"))
                       System.out.println("The element is enqueued to the queue!\n");
    else
      System.out.println("Queue is full!\n");
               queue.display();
               if (queue.enqueue("Emma"))
                       System.out.println("The element is enqueued to the queue!\n");
    else
      System.out.println("Queue is full!\n");
       }
Output:
Queue created.
The element is enqueued to the queue!
The element is enqueued to the queue!
The element is enqueued to the queue!
```

}

The element is enqueued to the queue!
The element is enqueued to the queue!
Displaying queue elements
Joe
Jack
Eva
Mia
Luke
Queue is full!