OBJECT ORIENTED PROGRAMMING LAB

Name: Manya Madhu

Roll No: 17

Batch: S2 RMCA B

Date: 07-06-2022

Experiment No: CO4-08

Aim

Program to demonstrate the addition and deletion of elements in deque.

Procedure:

```java
import java.util.*;
 class deque
{
 public static void main(String[] args)
 {
   Deque<String> deque = new LinkedList<String>();
   deque.add("Element 1 (Tail)");
   deque.addFirst("Element 2 (Head)");
   deque.addLast("Element 3 (Tail)");
   deque.push("Element 4 (Head)");
   deque.offer("Element 5 (Tail)");
   deque.offerFirst("Element 6 (Head)");
   System.out.println(deque + "\n");
   deque.removeFirst();
   deque.removeLast();
   System.out.println("Deque after removing " + "first and last: " + deque);
 }
}
```

Output:

```
C:\Users\Student\Desktop\Manya S2\temp>java deque
[Element 6 (Head), Element 4 (Head), Element 2 (Head), Element 1 (Tail), Element 3 (Tail), Element 5 (Tail)]

Deque after removing first and last: [Element 4 (Head), Element 2 (Head), Element 1 (Tail), Element 3 (Tail)]
```