#### **OBJECT ORIENTED PROGRAMMING LAB**

### **Experiment No: 28**

#### <u>Aim</u>

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

## **Procedure**

```
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);
```

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```
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```

}

# **Output Screenshot:**

```
C:\Users\Student\Documents\java\co4>javac deque.java
C:\Users\Student\Documents\java\co4>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)]
```