

**OBJECT ORIENTED PROGRAMMING LAB****Experiment No : 28****Aim**

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

**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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**Output**

```
Microsoft Windows [Version 10.0.19043.1706]
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D:\java>javac deque.java

D:\java>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)]

D:\java>
```