

**OBJECT ORIENTED PROGRAMMING LAB****Experiment No:(co4)28****Name: Mathew Sebastian****Roll No: 18****Batch: S2 RMCA B****Date: 07-06-2022****Aim**

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

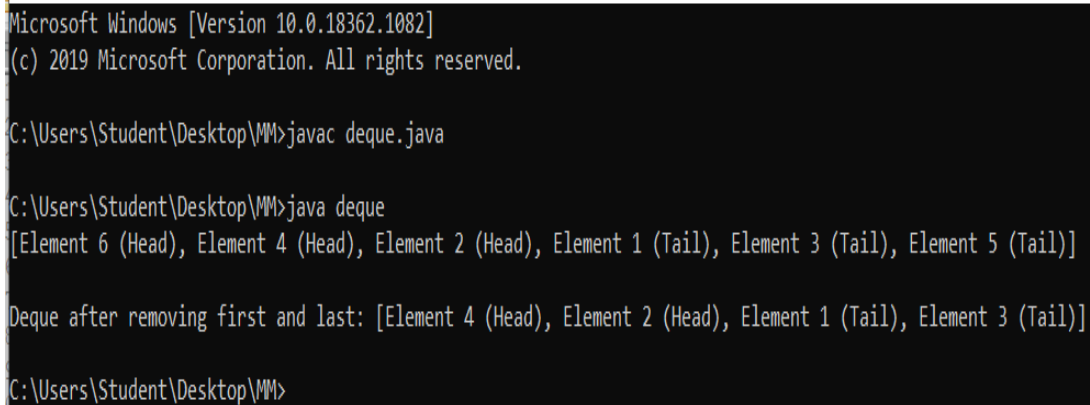
**Procedure**

```
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);
    }
}
```

## **Output Screenshot**



```
Microsoft Windows [Version 10.0.18362.1082]
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C:\Users\Student\Desktop\MM>javac deque.java

C:\Users\Student\Desktop\MM>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)]

C:\Users\Student\Desktop\MM>
```