**Name: RITTYMARIYA K R**

**Roll No:28**

**Batch: MCA B**

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**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No: 30**

**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>();

// We can add elements to the queue

// in various ways

// Add at the last

deque.add("\nElement 1 (Tail)");

// Add at the first

deque.addFirst("\nElement 2 (Head)");

// Add at the last

deque.addLast("\nElement 3 (Tail)");

// Add at the first

deque.push("\nElement 4 (Head)");

// Add at the last

deque.offer("\nElement 5 (Tail)");

// Add at the first

deque.offerFirst("\nElement 6 (Head)");

System.out.println(deque + "\n");

// We can remove the first element

// or the lastelement.

deque.removeFirst();

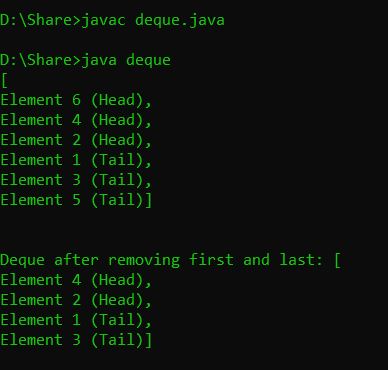
deque.removeLast();

System.out.println("\nDeque after removing " + "first and last: " + deque);

}

}

**Output Screenshot**

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