

OBJECT ORIENTED PROGRAMMING LAB**Name: Reshma K S****Roll No:27****Batch: S2 MCA B****Date:01/06/2022****Experiment No.: 23****Aim**

Program to demonstrate the creation of queue object using the Priority Queue class.

Procedure

```
import java.util.PriorityQueue;

public class CreationQueue {

    public static void main(String[] args) {

        PriorityQueue <Integer> pq = new PriorityQueue<>();

        pq.add(10);

        pq.add(13);

        pq.add(15);

        System.out.println("Elements are:");

        System.out.println(pq);

        System.out.println("Peek element is:");

        System.out.println(pq.peek());

        System.out.println("Removed element:");

        System.out.println(pq.poll());

        System.out.println("New peek element:");

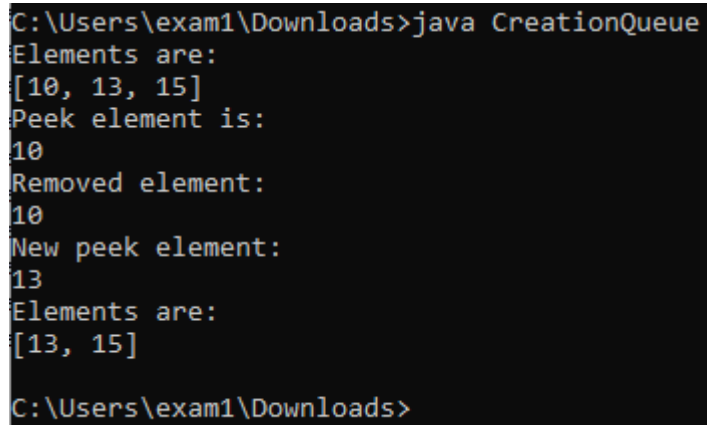
        System.out.println(pq.peek());

        System.out.println("Elements are:");

        System.out.println(pq);

    }

}
```

Output Screenshot

```
C:\Users\exam1\Downloads>java CreationQueue
Elements are:
[10, 13, 15]
Peek element is:
10
Removed element:
10
New peek element:
13
Elements are:
[13, 15]
C:\Users\exam1\Downloads>
```

The screenshot shows the execution of a Java program named 'CreationQueue'. The output displays the initial state of a queue with elements [10, 13, 15]. It then shows the 'Peek' operation returning 10, followed by the 'Remove' operation which also returns 10. After removal, the 'New peek element' is 13, and the final state of the queue is [13, 15].