

## OBJECT ORIENTED PROGRAMMING LAB

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**Roll No: 55**

**Batch: B**

**Date: 07-06-2022**

### **Experiment No.: 22**

#### **Aim**

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

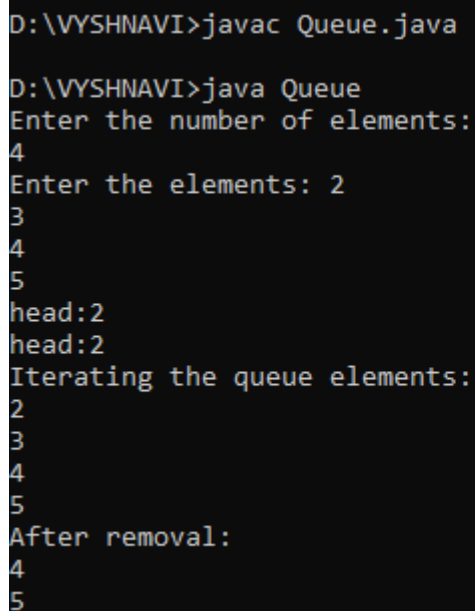
#### **Program**

```
import java.util.*;

public class Queue
{
    public static void main(String[] args)
    {
        PriorityQueue<Integer> queue=new PriorityQueue<Integer>();
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of elements: ");
        int num=sc.nextInt();
        System.out.print("Enter the elements: ");
        for(int i=1;i<=num;i++)
        {
            int n=sc.nextInt();
            queue.add(n);
        }
        System.out.println("head:"+queue.element());
        System.out.println("head:"+queue.peek());
        System.out.println("Iterating the queue elements: ");
        Iterator itr=queue.iterator();
```

```
        while(itr.hasNext())
        {
            System.out.println(itr.next());
        }
        queue.remove();
        queue.poll();
        System.out.println("After removal: ");
        Iterator<Integer> itr2=queue.iterator();
        while(itr2.hasNext())
        {
            System.out.println(itr2.next());
        }
    }
}
```

### Output Screenshot



```
D:\VYSHNAVI>javac Queue.java
D:\VYSHNAVI>java Queue
Enter the number of elements:
4
Enter the elements: 2
3
4
5
head:2
head:2
Iterating the queue elements:
2
3
4
5
After removal:
4
5
```