

**OBJECT ORIENTED PROGRAMING LAB****Experiment No.: 29****Name : Swetha Prakash****Roll No : 46****Batch : B****Date : 07-06-22****Aim**

Program to demonstrate the creation of queue object using the PriorityQueue class.

**Source Code**

```
import java.util.*;

class PriorityQueue1 {

    public static void main(String args[]){

        PriorityQueue<String> queue=new PriorityQueue<String>();

        queue.add("Upas");
        queue.add("Susan");
        queue.add("Swetha");
        queue.add("Vijay");
        queue.add("Varsha");

        System.out.println("Head:"+queue.element());
        System.out.println("Head:"+queue.peek());
        System.out.println("\nIterating the queue elements : ");
        Iterator itr=queue.iterator();
        while(itr.hasNext()){

            System.out.println(itr.next());

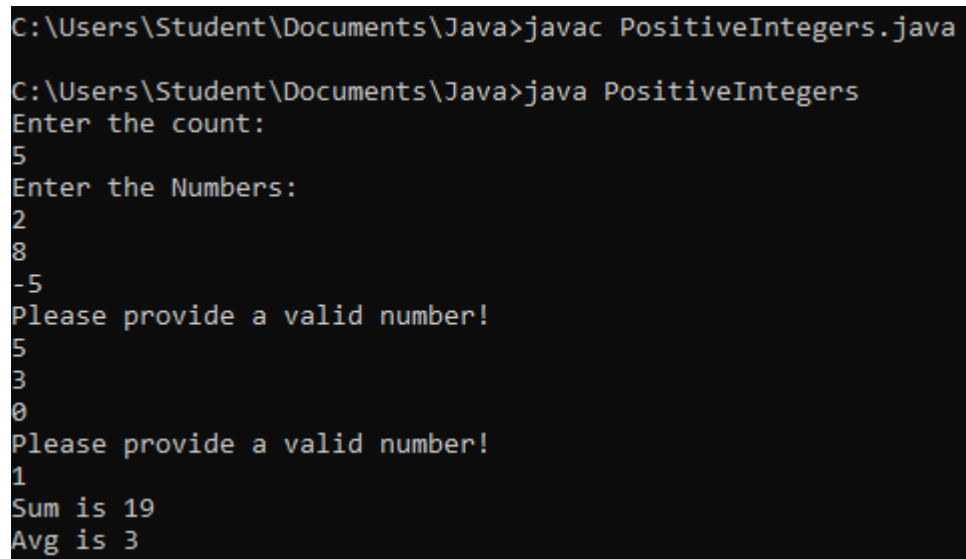
        }

        queue.remove();
        queue.poll();

        System.out.println("\nAfter removing two elements : ");
```

```
        Iterator<String> itr2=queue.iterator();  
        while(itr2.hasNext()){  
            System.out.println(itr2.next());  
        }  
    }  
}
```

### Output Screenshot



The screenshot shows a command prompt window with the following text:

```
C:\Users\Student\Documents\Java>javac PositiveIntegers.java  
C:\Users\Student\Documents\Java>java PositiveIntegers  
Enter the count:  
5  
Enter the Numbers:  
2  
8  
-5  
Please provide a valid number!  
5  
3  
0  
Please provide a valid number!  
1  
Sum is 19  
Avg is 3
```