Aim:

Write a class **InsertionSorting** with a **public** method insertionSort. The method receives one parameter array of int type. Write a code to sort the array elements using the insertion sort technique.

For example:

```
Cmd Args : 10 23 15 8 5 5 8 10 15 23
```

Note:

- Make sure to use the **println()** method and not the **print()** method.
- Please don't change the package name.

Source Code:

q11040/InsertionSorting.java

```
package q11040;
class InsertionSorting{
   void insertionSort(int arr[])
   {
      int n=arr.length;
      for(int i=1;i<n;i++)</pre>
          {
             int key=arr[i];
             int j=i-1;
             while(j>=0 && arr[j]>key)
                   arr[j+1]=arr[j];
                   j=j-1;
             arr[j+1]=key;
          }
      for(int i=0;i<n;i++)</pre>
             System.out.println(arr[i]);
          }
   }
}
```

q11040/InsertionSortingMain.java

```
package q11040;
public class InsertionSortingMain{
   public static void main(String[] args) {
     int[] array = new int[args.length];
   for (int i = 0; i < args.length; i++)</pre>
```

```
{
           array[i] = Integer.parseInt(args[i]);
         InsertionSorting inSorting = new InsertionSorting();
         inSorting.insertionSort(array);
  }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1	
Jser Output	
3	
4	

Test Case - 2	
User Output	
1	
2	
3	
4	

Test Case - 3	
User Output	
5	
8	
10	
15	
23	