```
/**
2
     A PROGRAM TO IMPLEMENT INSERTION SORT (ASCENDING ORDER).
3
4
    //SUCHIT TE XII A
5
   import java.util.*;
6
   public class insertionSort
7
8
        public static void main()
9
10
            Scanner sc = new Scanner(System.in);
11
            System.out.println("A PROGRAM TO SORT DIGITS IN ASCENDING ORDE
12
   R.");
13
            System.out.println("ENTER NUMBER OF DIGITS TO BE SORTED");
            int n = sc.nextInt();
14
            int arr[]=new int[n];
15
16
            for(int i=1 ; i<=n ; i++)</pre>
            {
17
                 if(i==1)
18
                 {
19
                     System.out.println("ENTER "+i+"st DIGIT");
20
                     arr[i-1]=sc.nextInt();
21
22
                 else if(i==2)
23
24
                     System.out.println("ENTER "+i+"nd DIGIT");
25
                     arr[i-1]=sc.nextInt();
26
27
                 }
                 else if(i==3)
28
29
                     System.out.println("ENTER "+i+"rd DIGIT");
30
                     arr[i-1]=sc.nextInt();
31
                 }
32
                 else
33
                 {
34
                     System.out.println("ENTER "+i+"th DIGIT");
35
                     arr[i-1]=sc.nextInt();
36
37
                 }
38
            }
            int temp = 0;
39
            int k = 0;
40
            for(int j=1; j<arr.length; j++)</pre>
41
42
                 temp = arr[j];
43
                 k=j-1;
44
                 while(k>=0 && temp<arr[k])</pre>
45
46
                     arr[k+1] = arr[k];
47
48
                     k--;
                 }
49
50
                 arr[k+1] = temp;
51
            System.out.println("THE SORTED ARRAY IS: ");
52
            for(int j=0 ; j<arr.length ; j++)</pre>
```

```
Class insertionSort - suchit-XII-A (continued)
                                                                              2/2
            {
                System.out.print(arr[j]+" ");
55
56
            }
57
        }
58
59
```