

```

1
2 import java.util.Scanner;
3 import java.util.Arrays;
4 public class MergeArraySort
5 {
6     private static int[] mergeArray(int[]
arrayA, int[] arrayB)
7     {
8         int[] mergedArray = new int[arrayA.length
+ arrayB.length];
9         int i=0, j=0, k=0;
10        while (i < arrayA.length)
11            {
12                mergedArray[k] = arrayA[i];
13                i++;
14                k++;
15            }
16        while (j < arrayB.length)
17            {
18                mergedArray[k] = arrayB[j];
19                j++;
20                k++;
21            }
22        Arrays.sort(mergedArray);
23        return mergedArray;
24    }
25    public static void main(String[] args)
26    {
27        System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
28        Scanner sc=new Scanner(System.in);
29        System.out.println("Enter the size
of array");
30        int n1 =sc.nextInt();
31        int[] arrayA=new int[n1];
32        int i,j;
33        System.out.println("enter the
elements ");
34        for (i = 0; i <n1; i++)
35        {
36            arrayA[i]= sc.nextInt();
37        }
38        System.out.println("Enter the size
of array");
39        int n2=sc.nextInt();
40        int[] arrayB=new int[n2];

```

```

20         k++;
21     }
22     Arrays.sort(mergedArray);
23     return mergedArray;
24 }
25 public static void main(String[] args)
26 {
27     System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
28     Scanner sc=new Scanner(System.in);
29     System.out.println("Enter the size
of array");
30     int n1 =sc.nextInt();
31     int[] arrayA=new int[n1];
32     int i,j;
33     System.out.println("enter the
elements ");
34     for (i = 0; i <n1; i++)
35     {
36         arrayA[i]= sc.nextInt();
37     }
38     System.out.println("Enter the size
of array");
39     int n2=sc.nextInt();
40     int[] arrayB=new int[n2];
41     System.out.println("enter the
elements ");
42     for ( i = 0; i <n2; i++)
43     {
44         arrayB[i]= sc.nextInt();
45     }
46     int[] mergedArray =
mergeArray(arrayA, arrayB);
47
48     System.out.println("Array A :
"+Arrays.toString(arrayA));
49
50     System.out.println("Array B :
"+Arrays.toString(arrayB));
51
52     System.out.println("Merged Array :
"+Arrays.toString(mergedArray));
53 }
54 }
55
56

```



Name :V. Jahnavi

SAP ID:51834788

Enter the size of array

3

enter the elements

1

4

5

Enter the size of array

3

enter the elements

6

7

0

Array A : [1, 4, 5]

Array B : [6, 7, 0]

Merged Array : [0, 1, 4, 5, 6, 7]

Process finished.

```
1 abstract class Student{
2     abstract void reading();
3     abstract void listening();
4     abstract void writing();
5     abstract void walking();
6     abstract void drawing();
7 }
8 class Jahnavi_V extends Student{
9     void reading(){
10         System.out.println("Student is
reading...");
11     }
12     void listening(){
13         System.out.println("Student is
listening...");
14     }
15     void writing(){
16         System.out.println("Student is
writing...");
17     }
18     void walking(){
19         System.out.println("Student is
walking...");
20     }
21     void drawing(){
22         System.out.println("Student is
drawing...");
23     }
24 }
25 class Jahnavi{
26     public static void main(String args[]){
27         System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
28         Student s=new Jahnavi_V();
29         s.reading();
30         s.listening();
31         s.writing();
32         s.walking();
33         s.drawing();
34     }
35 }
```


Name :V. Jahnavi

SAP ID:51834788

Student is reading...

Student is listening...

Student is writing...

Student is walking...

Student is drawing...

Process finished.

```
1
2 import java.lang.Math;
3 public class Main
4 {
5     public static void main(String[] args)
6     {
7         System.out.println("Name :V. Jahnavi\nSAP
8         char ch=' ';
9         for(int i=4;i>=1;i--)
10        {
11            int k=(int)Math.pow(2,i-1);
12            if(i==4)
13                ch='*';
14            else if(i==3)
15                ch='&';
16            else if(i==2)
17                ch='%';
18            for(int j=i;j<=4;j++)
19            {
20                System.out.print(" ");
21            }
22            for(int j=1;j<=k+2;j++)
23            {
24                if(j==1 || j==k+2 && i!=1)
25                {
26                    System.out.print("#");
27                }
28                else if(i!=1)
29                {
30                    System.out.print(ch);
31                }
32            }
33            System.out.println();
34        }
35    }
36 }
37 }
```





Name :V. Jahnavi

SAP ID:51834788

#####

#&&&&#

#%%#

#

Process finished.

```

1 import java.util.Scanner;
2 public class CountWords
3 {
4     public static void main(String[] args)
5     {
6         System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
7         Scanner sc=new Scanner(System.in);
8         System.out.println("Enter Input : ");
9         String sentence = sc.nextLine();
10            int wordCount = 0;
11
12            for(int i = 0; i <
sentence.length()-1; i++) {
13                //Counts all the spaces present
in the string
14                //It doesn't include the first
space as it won't be considered as a word
15                if(sentence.charAt(i) == ' ' &&
Character.isLetter(sentence.charAt(i+1)) &&
(i > 0)) {
16                    wordCount++;
17                }
18            }
19            //To count the last word present in
the string, increment wordCount by 1
20            wordCount++;
21
22            //Displays the total number of words
present in the given string
23            System.out.println("Output : " +
wordCount);
24        }
25    }

```




```
Name :V. Jahnavi  
SAP ID:51834788  
Enter Input :  
hello I am Jahnavi  
Output : 4
```

```
Process finished.
```