

```
1 //Question 2
2 import java.util.Arrays;
3 public class Main
4 {
5     private static int[] mergeArray(int[] array1, int[] array2)
6     {
7         System.out.println("Author:P.laasya");
8         int[] mergedArray = new int[array1.length + array2.length];
9         int a=0, b=0, c=0;
10        while (a < array1.length)
11        {
12            mergedArray[c] = array1[a];
13            a++;
14            c++;
15        }
16        while (b < array2.length)
```

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```
15     }
16     while (b < array2.length)
17     {
18         mergedArray[c] = array2[b];
19         b++;
20         c++;
21     }
22     Arrays.sort(mergedArray);
23     return mergedArray;
24 }
25 public static void main(String[] args)
```

```
26 {  
27     int[] array1 = new int[] {23,41,-2,51,12,7,4};  
28     int[] array2 = new int[] {43,23,-7,4,12,3};  
29     int[] mergedArray = mergeArray(array1, array2);  
30     System.out.println("Array 1 : "+Arrays.toString(array1));  
31     System.out.println("Array 2 : "+Arrays.toString(array2));  
32     System.out.println("Merged Array : "+Arrays.toString(mergedArray));  
33 }  
34 }
```

× Terminal



Author:P.laasya

Array 1 : [23, 41, -2, 51, 12, 7, 4]

Array 2 : [43, 23, -7, 4, 12, 3]


Merged Array : [-7, -2, 3, 4, 4, 7, 12, 12, 23, 23, 41, 43, 51]

Process finished.

```
1 //Question 5
2 import java.util.Scanner;
3
4 public class Main
5 {
6
7     public static void main(String args[])
8     {
9         System.out.println("Author:P.laasya");
10        System.out.println("Enter the string");
11
12        Scanner sc = new Scanner(System.in);
13
14        String a = sc.nextLine();
15
16        : Make public 🌐 = 1;
```



```
15     int count = 1;
16
17     for (int x = 0; x < a.length() - 1; x++)
18     {
19         if ((a.charAt(x) == ' ') && (a.charAt(x + 1) != ' '))
20         {
21             count++;
22         }
23     }
24 }
25
26 System.out.println("Number of words in a string = " + count);
27 }
28 }
```

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```
Author:P.laasya  
Enter the string  
hello how are you doing Hope all well  
Number of words in a string = 8  
  
Process finished.  
|
```