

```
2.)import java.util.Arrays;
```

```
public class Main
```

```
{
```

```
    private static int[] mergeArray(int[] array1, int[] array2)
```

```
    {
```

```
        System.out.println("Author:T.vyjayanthi\nSAP ID:51834774");
```

```
        int[] mergedArray = new int[array1.length + array2.length];
```

```
        int a=0, b=0, c=0;
```

```
        while (a < array1.length)
```

```
        {
```

```
            mergedArray[c] = array1[a];
```

```
            a++;
```

```
            c++;
```

```
        }
```

```
        while (b < array2.length)
```

```
        {
```

```
            mergedArray[c] = array2[b];
```

```
            b++;
```

```
            c++;
```

```
}
```

```
Arrays.sort(mergedArray);
```

```
return mergedArray;
```

```
}
```

```
public static void main(String[] args)
```

```
{
```

```
int[] array1 = new int[] {12, -7, 18, 9, 37, -1, 21};
```

```
int[] array2 = new int[] {27, 8, 71, -9, 18};
```

```
int[] mergedArray = mergeArray(array1, array2);
```

```
System.out.println("Array 1 : "+Arrays.toString(array1));
```

```
System.out.println("Array 2 : "+Arrays.toString(array2));
```

```
System.out.println("Merged Array : "+Arrays.toString(mergedArray));
```

```
}
```

```
}
```

5.

```
import java.util.Scanner;
```

```
public class Main
{

    public static void main(String args[])
    {
        System.out.println("Author:T.vyjayanthi\nSAP ID:51834774");

        System.out.println("Enter the string");

        Scanner sc = new Scanner(System.in);

        String a = sc.nextLine();

        int count = 1;

        for (int x = 0; x < a.length() - 1; x++)
        {
            if ((a.charAt(x) == ' ') && (a.charAt(x + 1) != ' '))
            {
                count++;
            }
        }

        System.out.println("Number of words in a string = " + count);
    }
}
```

}

}