```
2)import java.util.Arrays;
public class Main
  private static int[] mergeArray(int[] array1, int[] array2)
    System.out.println("Author:D.Aditya Varma\nSAP ID:51834693");
    int[] mergedArray = new int[array1.length + array2.length];
    int a=0, b=0, c=0;
     while (a < array1.length)
       mergedArray[c] = array1[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));
}
```

Input:

Output:

```
\underline{5}) import java.util.Scanner;
public class Main
       public static void main(String args[])
          System.out.println("Author:D.Aditya Varma\nSAP ID:51834693");
               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);
        }
}
```

Input:

```
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           import java.util.Scanner;
                    System.out.println("Author:D.Aditya Varma\nSAP ID:51834693");
System.out.println("Enter the string");
                   for (int x = 0; x < a.length() - 1; x++)
{</pre>
```

Output:

