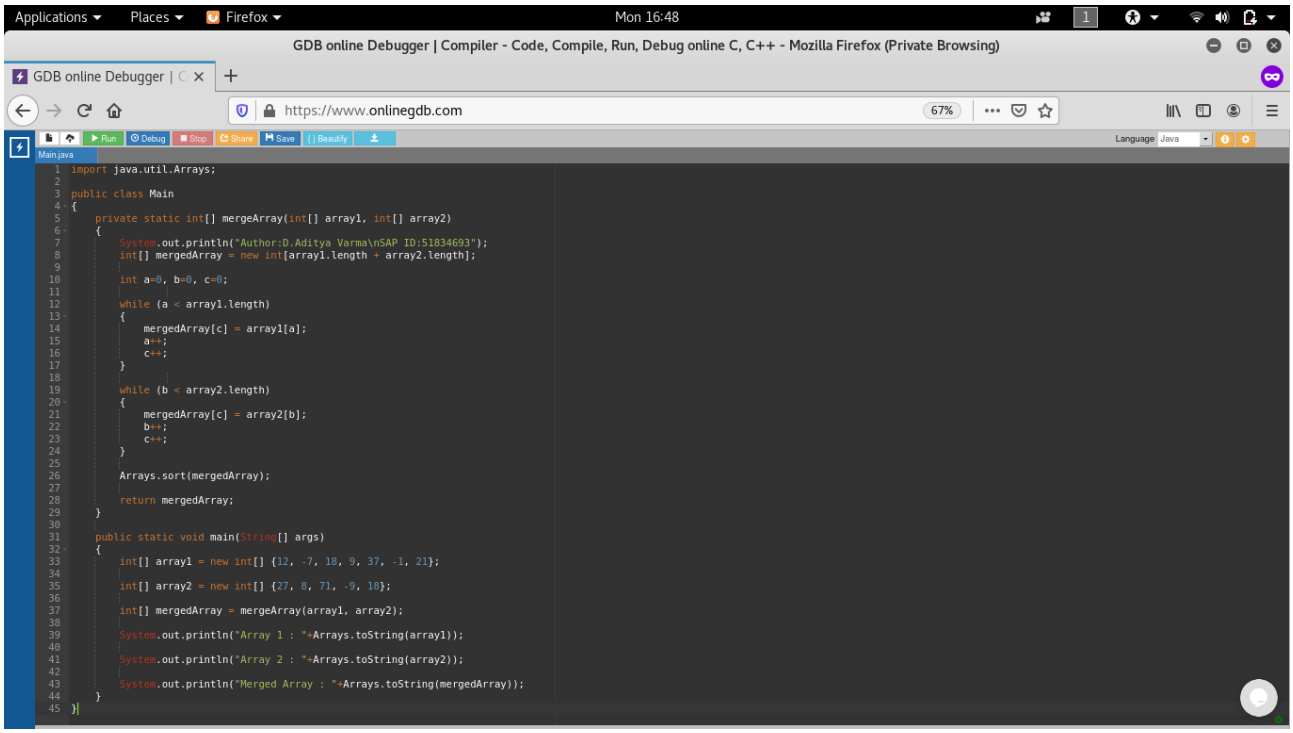
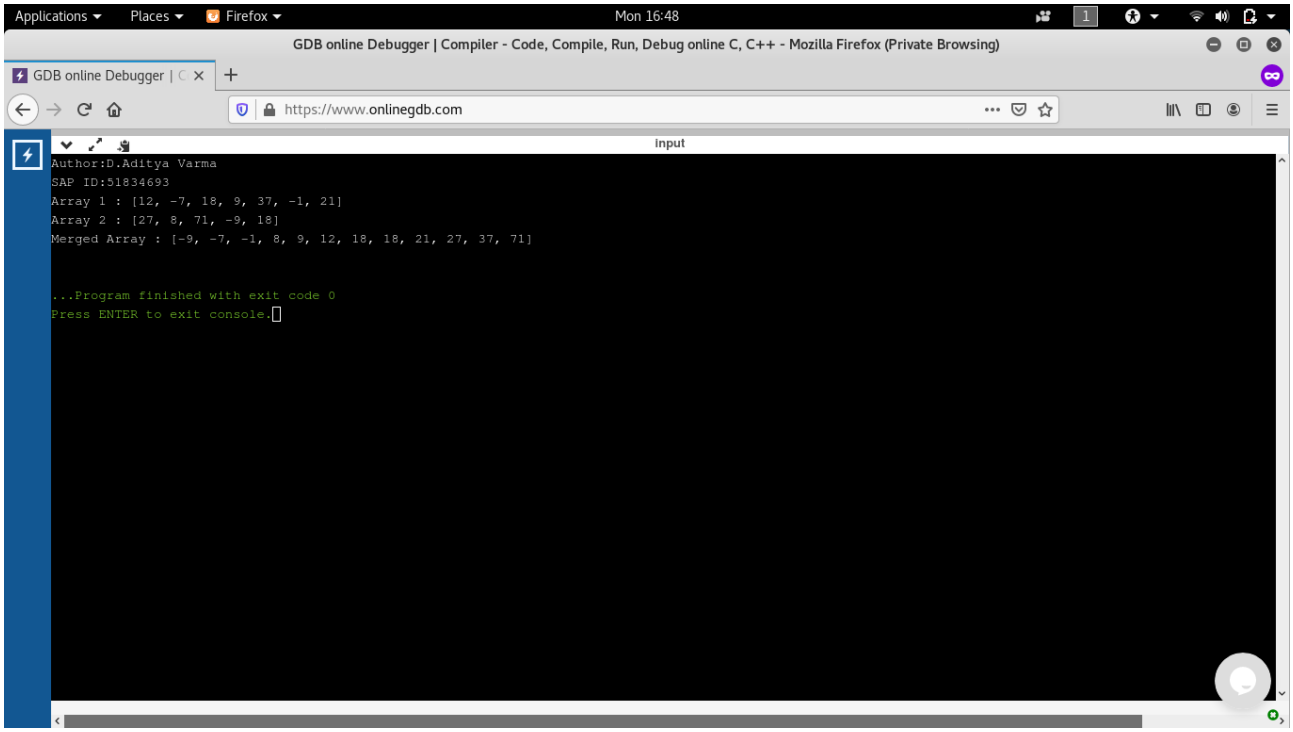
2)import java.util.Arrays;

```
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];
         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:



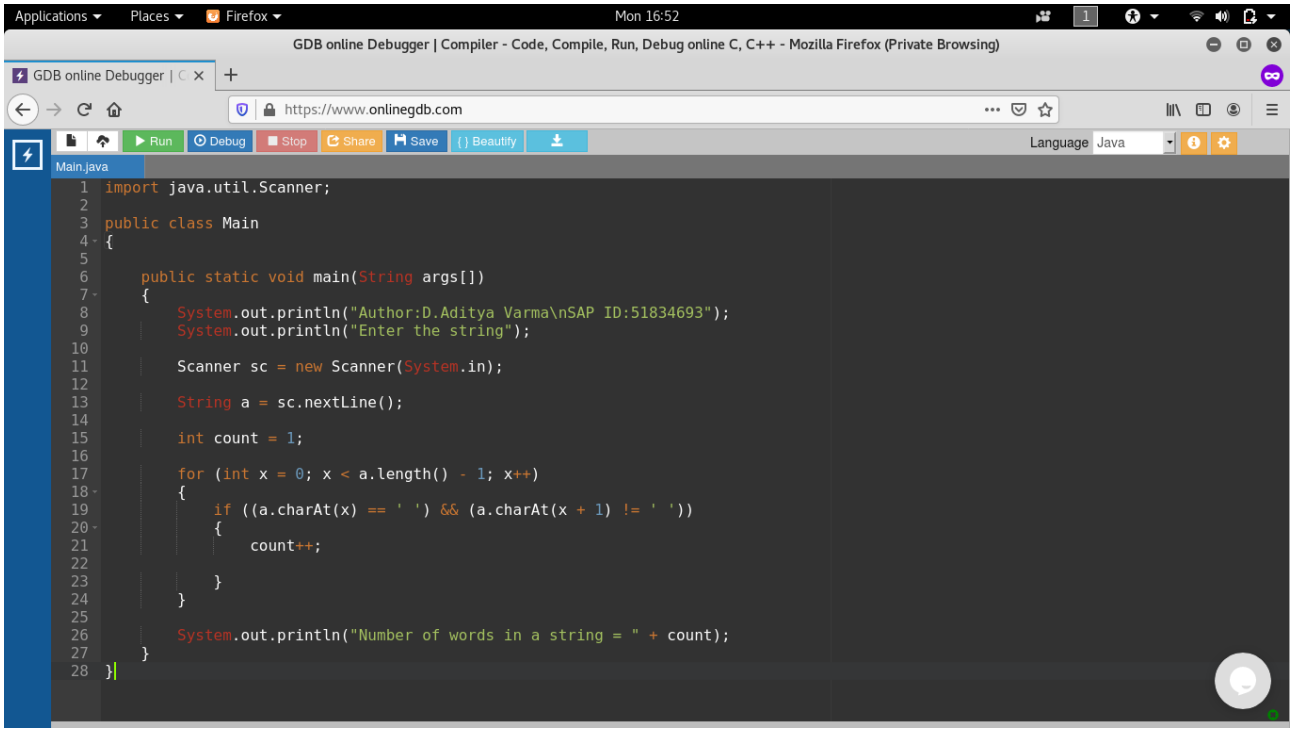
Output:



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:



Output: