

Q.1)Write a Java Program to count the number of words in a String without using the Predefined method?

```
package Packgetype;
import java.util.Scanner;

public class Quiz4Q1 {
    //1)Write a Java Program to count the number of words in a String without using the
    Predefined method?

    public static void main(String[]args) {

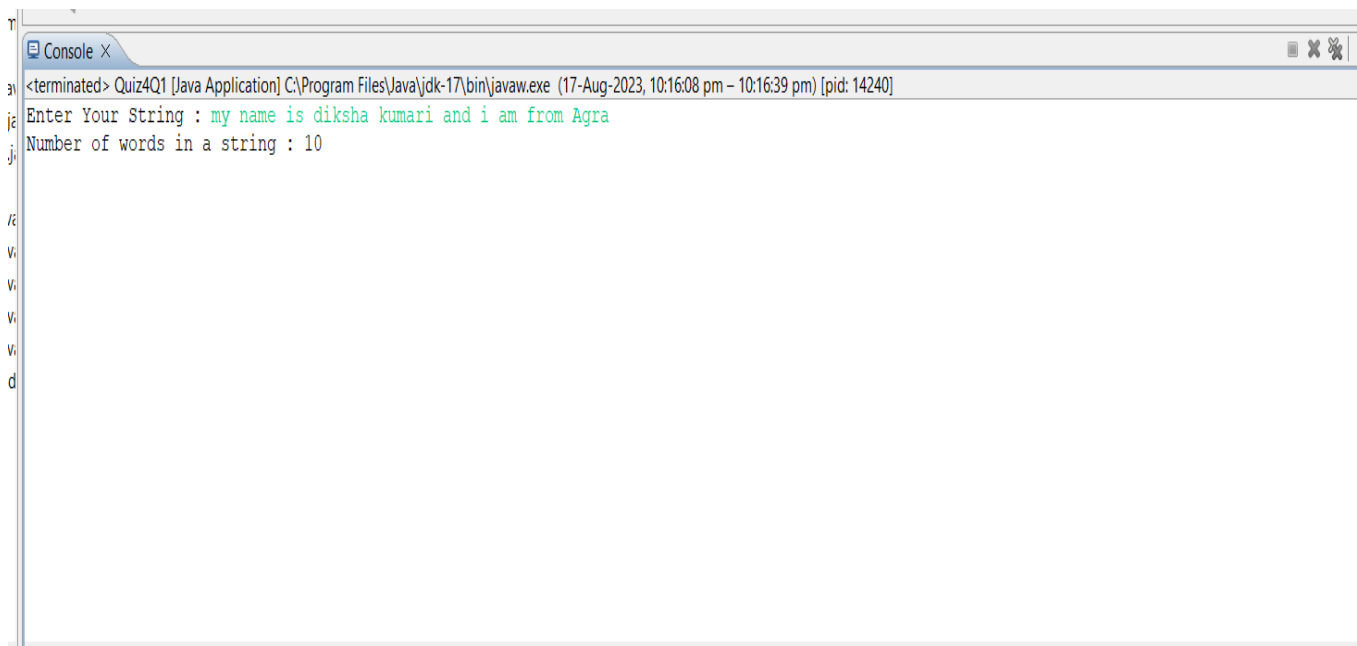
        Scanner sc=new Scanner(System.in); //Scanner for user input

        System.out.print("Enter Your String : "); // Take input from user as string

        String str = sc.nextLine();
        int count=1;

        for (int i=0;i<str.length()-1;i++)//for loop for count the words in given string
        {
            if ((str.charAt(i)==' ')&&(str.charAt(i + 1)!=' ')) //if condition for space
            between words
            {
                count++; //increase count if space is available
            }
        }
        System.out.println("Number of words in a string : " + count); //Print the no of
        words available in user input string
    }
}
```

OUTPUT:-



```
<terminated> Quiz4Q1 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (17-Aug-2023, 10:16:08 pm - 10:16:39 pm) [pid: 14240]
Enter Your String : my name is diksha kumari and i am from Agra
Number of words in a string : 10
```

Q. 2) Find the length of the given string without using pre-defined length() method.

```
package Packgetype;
import java.util.Scanner;
```

```

public class Quiz4Q2 {

    //2) Find the length of the given string without using pre-defined length() method.

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);    //Scanner method for user input

        int length=0;

        System.out.print("Enter string: "); //Taking user input as string

        String s = sc.nextLine();

        for (char c1 : s.toCharArray())    //method to count character
            length++;
        System.out.println("Length of String is : "+length); //Print the output as length of
string

    }

}

```

Output:

```

<terminated> Quiz4Q2 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (17-Aug-2023, 10:53:04 pm - 10:53:42 pm) [pid: 1044]
Enter string: This is my country India!!!!
Length of String is : 28

```

Q. 3) Write a Java program to replace each substring of a given string that matches the given regular expression with the given replacement.

Sample string : "The quick brown fox jumps over the lazy dog."

In the above string replace all the fox with cat.

Sample Output:

Original string: The quick brown fox jumps over the lazy dog.

New String: The quick brown cat jumps over the lazy dog.

```
package Packgetype;
```

```
public class Quiz4Q3 {
```

```
/*      3) Write a Java program to replace each substring of a given string that matches  
the given regular expression with the given replacement.
```

```
Sample string : "The quick brown fox jumps over the lazy dog."
```

```
In the above string replace all the fox with cat.
```

```
Sample Output:
```

```
Original string: The quick brown fox jumps over the lazy dog.
```

```
New String: The quick brown cat jumps over the lazy dog.*/
```

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

```
{
```

```
String str = "The quick brown fox jumps over the lazy dog.";    //original string
```

```
String str1 = str.replaceAll("fox", "cat"); //used replaceAll method to replace  
every fox word to cat
```

```
System.out.println("Original string: " + str); // printing original string
```

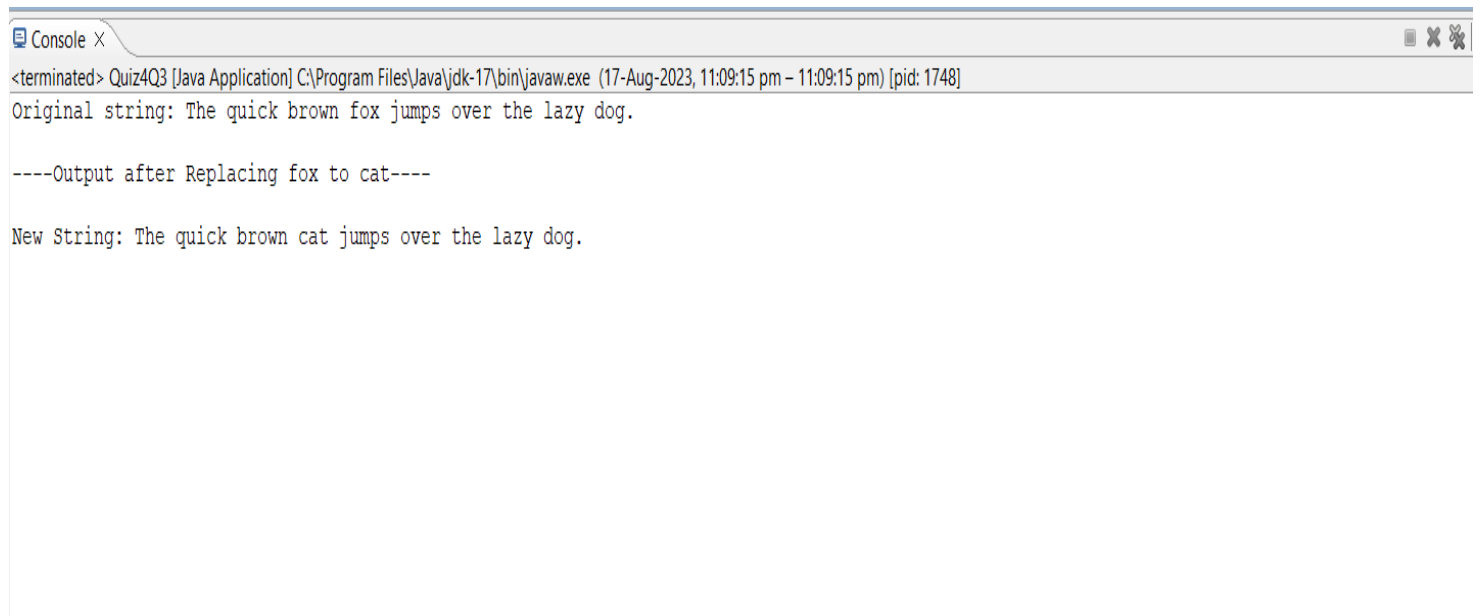
```
System.out.println("\n---Output after Replacing fox to cat---");
```

```
System.out.println("\nNew String: " + str1); // printing new string after  
replacing fox word to cat
```

```
}
```

```
}
```

Output:



```
Console X
<terminated> Quiz4Q3 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (17-Aug-2023, 11:09:15 pm - 11:09:15 pm) [pid: 1748]
Original string: The quick brown fox jumps over the lazy dog.

---Output after Replacing fox to cat---

New String: The quick brown cat jumps over the lazy dog.
```

