

Java AT-1

Write a program to count the number of alphabets, digits, whitespaces and special symbols in a given string.(Take input of the string from the user)

Program:

```
/**
 * Write a program to count the number of alphabets, digits,
 * whitespaces and special symbols in a given string.(Take input of the
 * string from the user)
 */

import java.util.Scanner;
public class AT_1 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter a string: ");

        String s = scanner.nextLine();
        count(s);

        scanner.close();
    }

    public static void count(String str){

        char [] ch = str.toCharArray();
        int letter=0, space = 0, digit = 0, other = 0, word=0;

        //To count number of words in a string by splitting the string
        at " "
        String[] words = str.split(" ");
```

```
word = words.length;

//To count the other parameters
for (char c : ch) {
    if (Character.isLetter(c)) {
        letter ++;
    }
    else if(Character.isDigit(c)){
        digit ++;
    }
    else if(Character.isSpaceChar(c)){
        space ++;
    }
    else{
        other ++;
    }
}

//Displaying all the parameters
System.out.println("String analysis: ");
System.out.println("WORDS: " + word);
System.out.println("LETTER: " + letter);
System.out.println("DIGIT: " + digit);
System.out.println("SPACE: " + space);
System.out.println("OTHER CHARACTERS: " + other);
}
}
```

Output:

```
Microsoft Windows [Version 10.0.19042.662]
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D:\College\JAVA\Assignment Test>javac AT_1.java

D:\College\JAVA\Assignment Test>java AT_1
Enter a string:
Hello World 123456 @$%^&
String analysis:
WORDS: 4
LETTER: 10
DIGIT: 6
SPACE: 3
OTHER CHARACTERS: 6

D:\College\JAVA\Assignment Test>java AT_1
Enter a string:
Assignment Test 1 !
String analysis:
WORDS: 4
LETTER: 14
DIGIT: 1
SPACE: 3
OTHER CHARACTERS: 1

D:\College\JAVA\Assignment Test>|
```