

**Description:**

**Write a Java program to analyze a user-input string. The program should:**

- **Count the number of vowels, consonants, digits, and special characters.**

```
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a string: ");
        String str = sc.nextLine();
        sc.close();

        int vowels = 0, consonants = 0, digits = 0, specialChars = 0;

        for (int i = 0; i < str.length(); i++) {
            char ch = str.charAt(i);

            if (Character.isLetter(ch)) {
                if ("aeiouAEIOU".indexOf(ch) != -1)
                    vowels++;
                else
                    consonants++;
            } else if (Character.isDigit(ch)) {
                digits++;
            } else {
                specialChars++;
            }
        }

        System.out.println("Vowels: " + vowels);
        System.out.println("Consonants: " + consonants);
        System.out.println("Digits: " + digits);
        System.out.println("Special Characters: " + specialChars);
    }
}
```

Run

Debug

Stop

Share

Save

Beautify

Main.java

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

```
for (int i = 0; i < str.length(); i++) {
    char ch = str.charAt(i);

    if (Character.isLetter(ch)) {
        if ("aeiouAEIOU".indexOf(ch) != -1)
            vowels++;
        else
            consonants++;
    } else if (Character.isDigit(ch)) {
        digits++;
    } else {
        specialChars++;
    }
}

System.out.println("Vowels: " + vowels);
System.out.println("Consonants: " + consonants);
System.out.println("Digits: " + digits);
System.out.println("Special Characters: " + specialChars);
}
```

input

Enter a string: abcjhg  
Vowels: 1  
Consonants: 5  
Digits: 0  
Special Characters: 0  
  
...Program finished with exit code 0  
Press ENTER to exit console.