

Write a Program to calculate the Frequency of characters in a string

Description

Get a string as the input from the user and find the frequency of characters in the string.

Input

program

Output

The frequency of a is 1

The frequency of g is 1

The frequency of m is 1

The frequency of o is 1

The frequency of p is 1

The frequency of r is 2

C Program

```
#include <stdio.h>
#include <string.h>
int main()
{
    char str[100];
    int i;
    int frequency[256] = {0};
    printf("Enter a string: ");
    gets(str);
    for(i = 0; str[i] != '\0'; i++)
    {
        frequency[str[i]]++;
    }
}
```

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```
}  
for(i = 0; i < 256; i++)  
{  
    if(frequency[i] != 0)  
    {  
        printf("The frequency of %c is %d\n", i, frequency[i]);  
    }  
}  
return 0;  
}
```

C++ Program

```
#include <iostream>  
#include <string.h>  
using namespace std;  
int main()  
{  
    char str[100];  
    int i;  
    int frequency[256] = {0};  
    cout << "Enter a string: ";  
    gets(str);  
    for(i = 0; str[i] != '\0'; i++)  
    {  
        frequency[str[i]]++;  
    }  
    for(i = 0; i < 256; i++)  
    {  
        if(frequency[i] != 0)
```

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```
{  
    printf("The frequency of %c is %d\n", i, frequency[i]);  
}  
}  
return 0;  
}
```

Java

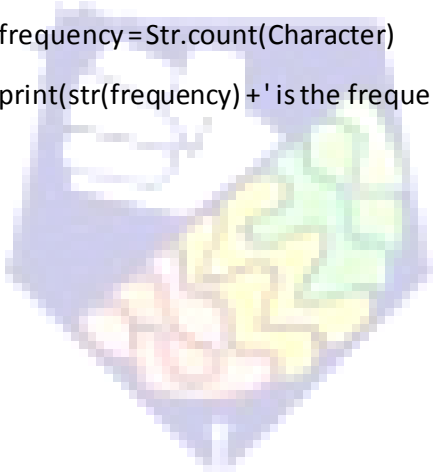
```
import java.util.Scanner;  
  
public class Main  
{  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        System.out.print("Enter a string: ");  
        String str = sc.nextLine();  
        int[] frequency = new int[str.length()];  
        int i, j;  
        char strnew[] = str.toCharArray();  
        for(i = 0; i < str.length(); i++) {  
            frequency[i] = 1;  
            for(j = i+1; j < str.length(); j++) {  
                if(strnew[i] == strnew[j]) {  
                    frequency[i]++;  
                    strnew[j] = '0';  
                }  
            }  
        }  
        System.out.println("Frequencies: ");  
        for(i = 0; i < frequency.length; i++) {
```

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```
if(strnew[i] != '' && strnew[i] != '0')  
    System.out.println(strnew[i] + " - " + frequency[i]);  
}  
}  
}
```

Python

```
Str = input('Enter the string:')  
frequency=0  
for i in range(0,len(Str)):  
    Character = Str[i]  
    frequency=Str.count(Character)  
    print(str(frequency) + ' is the frequency of '+Character)
```



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