

VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_BCSE102P_Lab 2_COD_Medium_Strings

Attempt : 1

Total Mark : 10

Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Bob is working on a text analysis tool and needs your help in developing a program that classifies characters in a given string. The program should count the number of vowels, consonants, digits, and special characters in the input string.

Answer

```
// You are using GCC
#include<stdio.h>
#include<ctype.h>
#include<string.h>
```

```
int main(){
    char str[151];
```

```
int vowels = 0, consonants = 0, digit = 0, splchrs = 0, i = 0;
scanf("%s", &str);

for (int i = 0; str[i] != '\0'; i++){
    char ch = str[i];

    if (isalpha(ch)){
        char lower_ch = tolower(ch);
        if (lower_ch == 'a' || lower_ch == 'e' || lower_ch == 'i' || lower_ch == 'o' ||
lower_ch == 'u'){
            vowels++;
        }
        else{
            consonants++;
        }
    }
    else if (isdigit(ch)){
        digit++;
    }
    else{
        splchrs++;
    }
}

printf("Vowels: %d\n", vowels);
printf("Consonants: %d\n", consonants);
printf("Digits: %d\n", digit);
printf("Special Characters: %d\n", splchrs);

return 0;
}
```

Status : Correct

Marks : 10/10