

Digital assignment 2

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First question:

- 1) Write a c program to find the number of words, vowels, consonants, space and special characters in a string

INPUT:

*Nothing is impossible in this world.

OUTPUT:

Words = 6

Vowels = 10

Consonants = 20Space = 5

Special Characters = 2

Answer:

```
#include <stdio.h>
#include <ctype.h>
int main() {
    char str[1000];
    int words = 0, vowels = 0, consonants = 0, spaces = 0, special_chars = 0;
    int i;
    printf("Enter a string: ");
    fgets(str, sizeof(str), stdin);
    for (i = 0; str[i] != '\0'; i++) {
        if (isalpha(str[i])) {
```

```
        if (tolower(str[i]) == 'a' || tolower(str[i]) == 'e'
|| tolower(str[i]) == 'i' || tolower(str[i]) == 'o' ||
tolower(str[i]) == 'u') {
            vowels++;
        } else {
            consonants++;
        }
    } else if (isspace(str[i])) {
        words++;
        spaces++;
    } else {
        special_chars++;
    }
}

words++;
printf("Words = %d\n", words);
printf("Vowels = %d\n", vowels);
printf("Consonants = %d\n", consonants);
printf("Space = %d\n", spaces);
printf("Special Characters = %d\n", special_chars);
return 0;
}
```