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 = 20

Space = 5

Special Characters = 2

#include <stdio.h>

#include <ctype.h>

int main() {

char str[100];

int vowels = 0, consonants = 0, words = 0, spaces = 0, special = 0, 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 if (ispunct(str[i])) {

special++;

}

}

words++;

printf("Number of words = %d\n", words);

printf("Number of vowels = %d\n", vowels);

printf("Number of consonants = %d\n", consonants);

printf("Number of spaces = %d\n", spaces);

printf("Number of special characters = %d\n", special);

return 0;

}

