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;

}