

DIGITAL ASSIGNMENT 2

NAME: J AKASH SIVA TEJA

Reg.no: 22BCE1778

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 = 20 Space = 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;  
}
```