#include<iostream.h>

#include<conio.h>

#include<stdio.h>

#include<string.h>

#include<ctype.h>

void main()

{

clrscr();

char sen[1000];

int up,lo,wo,vo,co,di,sp,sym,a,b; //Declaration of variables.

up=lo=vo=co=di=sp=sym=0;

cout<<"\n Enter a sentence: ";

gets(sen);

b=strlen(sen);

for(a=0;sen[a]!='\0';a++) //For loop begins.

{

if(isalpha(sen[a])) //Checking for alphabets.

{

if(isupper(sen[a])) //Checking for uppercase alphabets.

up++;

else if(islower(sen[a])) //Checking for lowercase alphabets.

lo++;

{

if(sen[a]=='A'||sen[a]=='a'||sen[a]=='E'||sen[a]=='e'

||sen[a]=='I'||sen[a]=='i'||sen[a]=='O'

||sen[a]=='o'||sen[a]=='U'

||sen[a]=='u')

vo++;

else

co++;

}

}

else if(isdigit(sen[a])) //Checking for digits.

di++;

else if(sen[a]==32) //Checking for space.

sp++;

else

sym++;

} //For loop ends.

cout<<"\n Size of sentence: "<<b;

cout<<"\n No. of words: "<<sp+1;

cout<<"\n No. of uppercase words: "<<up;

cout<<"\n No. of lowercase words: "<<lo;

cout<<"\n No. of digits: "<<di;

cout<<"\n No. of spaces used: "<<sp;

cout<<"\n No. of symbol used: "<<sym;

getch();

}