/\* WAP to create a **text file(.txt)** and display number of words, alphabets, vowels and consonants and number of lowercase and uppercase letters using the concept of **DATA FILE HANDLING**. \*/

#include<fstream.h>

#include<string.h>

#include<ctype.h>

#include<conio.h>

void main()

{

clrscr();

char a[80];

int words=0, upper\_letters=0, lower\_letters=0, alpha=0, vowels=0,consonants=0;

ofstream string("str.txt");

cout<<"\n\nEnter the string : ";

cin.getline(a,79);

string<<"The string is : "<<a<<"\n\n";

for(int i=0; i<strlen(a); i++)

{

if(a[i]==' ')

while(a[i]==' ')

{

i++;

}

if(isalnum(a[i]))

{

while(a[i]!=' ')

{

i++;

}

words++;

}

}

string<<"\n\nThe number of words in string are : "<<words;

string<<"\n\n\nAlphabets in string are : \n\n";

for(i=0; i<strlen(a); i++)

{

if(isalpha(a[i]))

{

alpha++;

string<<a[i]<<" ";

}

}

string<<"\n\nTotal number of alphabets in string => "<<alpha;

string<<"\n\n\nUppercase letters in string are : \n\n";

for(i=0; i<strlen(a); i++)

{

if(isupper(a[i]))

{

upper\_letters++;

string<<a[i]<<" ";

}

}

string<<"\n\nTotal number of uppercase letters in string => "<<upper\_letters;

string<<"\n\n\nLowercase letters in string are : \n\n";

for(i=0; i<strlen(a); i++)

{

if(islower(a[i]))

{

lower\_letters++;

string<<a[i]<<" ";

}

}

string<<"\n\nTotal number of Lowercase letters in string => "<<lower\_letters;

string<<"\n\n\nVowels in string are : \n\n";

for(i=0; i<strlen(a); i++)

{

if(isalpha(a[i]))

{

if(a[i]=='a'||a[i]=='A'||a[i]=='e'||a[i]=='E'||a[i]=='i'||a[i]=='I'||a[i]=='o'||a[i]=='O'||a[i]=='u'||a[i]=='U')

{

vowels++;

string<<a[i]<<" ";

}

}

}

string<<"\n\nTotal number of vowels in string => "<<vowels;

string<<"\n\n\nConsonants in string are : \n\n";

for(i=0; i<strlen(a); i++)

{

if(isalpha(a[i]))

{

if(a[i]!='a'&&a[i]!='A'&&(a[i]!='e'&&a[i]!='E'&&a[i]!='i'&&a[i]!='I'&&(a[i]!='o'&&a[i]!='O')&&a[i]!='u'&&a[i]!='U')

{

consonants++;

string<<a[i]<<" ";

}

}

}

string<<"\n\nTotal number of vowels in string => "<<consonants;

getch();

}

**Output :**

Enter the string : Rahul Verma

**Output of created text file:**

The string is : Rahul Verma

The number of words in string are : 2

Alphabets in string are :

R a h u l V e r m a

Total number of alphabets in string => 10

Uppercase letters in string are :

R V

Total number of uppercase letters in string => 2

Lowercase letters in string are :

a h u l e r m a

Total number of Lowercase letters in string => 8

Vowels in string are :

a u e a

Total number of vowels in string => 4

Consonants in string are :

R h l V r m

Total number of vowels in string => 6