**//Program no.\_\_**

**//Aim- to implement various functions related to text files**

**SOURCE CODE**

#include<fstream.h>

#include<conio.h>

#include<string.h>

#include<ctype.h>

void display()

{

char A[20];

int c=0;

ifstream fin("poem.txt");

while(!fin.eof())

{

fin.getline(A,20,' ');

if(fin.eof()==1)

break;

cout<<A<<' ';

c++;

}

fin.close();

}

int wordcount()

{

char A[20];

int c=0;

ifstream fin("poem.txt");

while(!fin.eof())

{

fin.getline(A,20,' ');

if(fin.eof()==1)

break;

c++;

}

fin.close();

return c;

}

int char\_count()

{

char A;

int c=0;

ifstream fin("poem.txt");

while(fin>>A)

{

if(isalpha(A))

c++;

}

fin.close();

return c;

}

void lowercount\_uppercount()

{

ifstream fin("poem.txt",ios::in);

char ch;

int countup=0;

int countlow=0;

while(fin>>ch)

{

if(isupper(ch))

countup++;

else if(islower(ch))

countlow++;

}

cout<<"\nNo. of upper case characters=" <<countup;

cout<<"\nNo. of lower case characters=" <<countlow;

}

void lowertoupper()

{

char A,ch;

fstream f("poem.txt",ios::out|ios::in);

while(!f.eof())

{

if(f.eof())

break;

f>>A;

switch(A)

{

case 'a':

case 'A':

case 'e':

case 'E':

case 'i':

case 'I':

case 'o':

case 'O': if(islower(A))

{

ch=toupper(A);

f.seekp(-1,ios::cur);

f<<ch;

}

break;

}

}

f.close();

}

void vowels()

{

char A;

ifstream fin("poem.txt");

ofstream fout("vowels.txt");

while(fin>>A)

{

switch(A)

{

case 'a':

case 'A':

case 'e':

case 'E':

case 'i':

case 'I':

case 'o':

case 'O': fout<<A;

break;

default : break;

}

}

fin.close();

fout.close();

fin.open("vowels.txt");

char C;

while(fin>>C)

{

if(fin.eof()==1)

break;

cout<<C;

}

fin.close();

}

int counti()

{

ifstream fin("poem.txt",ios::in);

char c[20];

int count=0;

while(!fin.eof())

{

fin.getline(c,20,' ');

if(fin.eof()==1)

break;

if(c[0]=='i'||c[0]=='I')

count++;

}

return count;

}

int dotcount()

{

ifstream fin("poem.txt",ios::in);

char c;

int count=0;

while(!fin.eof())

{

fin>>c;

if(fin.eof()==1)

break;

if(c=='.')

count++;

}

return count;

}

void main()

{

clrscr();

ofstream fout("poem.txt",ios::trunc);

fout<<"if you are not willing to learn,\n "

<<"No one can help you.\n "

<<"If you are determined to learn,\n "

<<"No one can stop you.";

fout.close();

int x;

do

{

cout<<"\n1-Display file\n2-lower case to upper case\n3-total character\n4-no of words\n5-Average word size\n6-no of lower case and upper case\n7-vowels\n8-no of words starting with I\n9-no. of lines ending with '.'\n10-exit\n";

cin>>x;

switch(x)

{

case 1:display();

break;

case 2:lowertoupper();

cout<<"\nFile with lower to upper\n";

display();

break;

case 3:cout<<"\nNo. of characters="<<char\_count();

break;

case 4:cout<<"\nNo. of words="<<wordcount();

break;

case 5:cout<<"\nAverage word size=" <<(float)(char\_count())/(float)(wordcount());

break;

case 6:lowercount\_uppercount();

break;

case 7:cout<<"\n\nVowels in the file are\n";

vowels();

break;

case 8:cout<<"\nNo. of words starting with I=" <<counti();

break;

case 9:cout<<"\nNo. of lines ending with \'.\'=" <<dotcount();

break;

case 10: break;

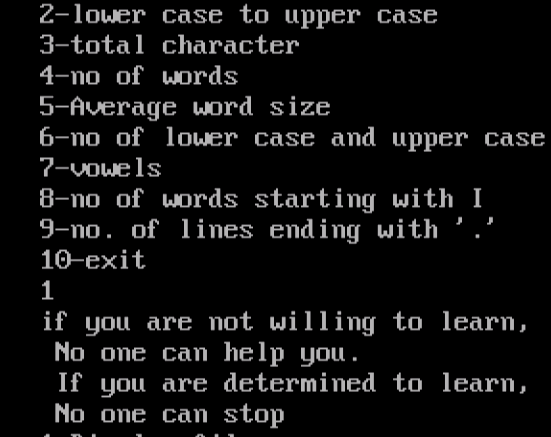
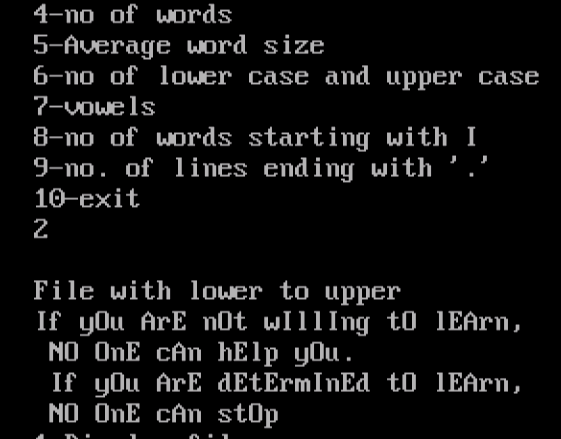
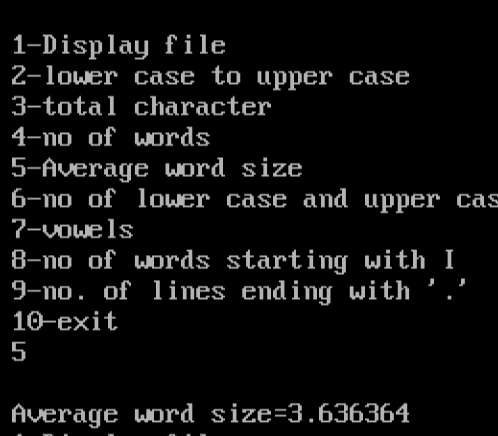
default: cout<<"Wrong input\n";

}

}while(x!=10);

}

**OUTPUT**

****