disksort\_07.cpp

**Compile:** g++ disksort\_07.cpp -o disksort\_07

**Run:** ./disksort\_07

**Program:**

#include<iostream>

#include<fstream>

#include<stdlib.h>

using namespace std;

classfilesort

{

intno,totalno,a[20];

public:

int flag;

filesort(){totalno=flag=0;}

voidgetdata();

voidshowdata();

void sort();

void menu();

};

voidfilesort::getdata()

{

ofstreamfout;

if(flag==0)

{

fout.open("filesort.txt",ios::out|ios::trunc);

cout<<"\n\nenter 10 number ";

for(inti=0;i<10;i++)

{

cin>>no;

fout<<no<<"\n";

}

fout.close();

flag=1;

totalno=10;

cout<<"\n\ndata inserted in file\n\n";

} else

{

fout.open("filesort.txt",ios::app);

cout<<"\n\nenter a number ";

cin>>no;

fout<<no<<"\n";

cout<<"\n\nno appended in file ";

totalno++;

}

fout.close();

}

voidfilesort::showdata()

{

if(totalno!=0)

{

ifstream fin;

cout<<"\n\nDisplaying Data from File \n\n\n";

fin.open("filesort.txt",ios::in);

for(inti=0;i<totalno;i++)

{

fin>>no;

cout<<no<<"\t";

}

fin.close();

} else

cout<<"\n\nfile is empty ";

}

voidfilesort::sort()

{

if(totalno!=0)

{

inttemp,j,i;

ifstream fin;

cout<<"\n\nFile is sorted ";

fin.open("filesort.txt",ios::in);

for(i=0;i<totalno;i++)

fin>>a[i];

fin.close();

for(i=0;i<totalno;i++)

for(j=0;j<totalno-1;j++)

if(a[j]>a[j+1])

{

temp=a[j];

a[j]=a[j+1];

a[j+1]=temp;

}

ofstreamfout;

fout.open("filesort.txt",ios::out);

for(i=0;i<totalno;i++)

fout<<a[i]<<"\n";

fout.close();

} else

cout<<"\n\nfile is empty ";

}

voidfilesort::menu()

{

char choice;

do

{

cout<<"\n\n\t\t\t\tDisk File Sorting";

cout<<"\n\n1. insert data in file ";

cout<<"\n\n2. Display data from file ";

cout<<"\n\n3. Sort Content of file ";

cout<<"\n\n4. Exit ";

cout<<"\n\nyour choice ";

cin>>choice;

if(choice!='4')

{

switch(choice)

{

case '1':

getdata();

break;

case '2':

showdata();

break;

case '3':

sort();

break;

default:

break;

}

}

}while(choice!='4');

}

int main()

{

filesort f;

f.menu();

return 0;

}

**Output:**

****