C++

MINI

PROJECT

BY

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PROBLEM:

TO SANCTION LOAN FOR CUSTOMERS USING BINARY FILES

PROGRAM:

#include<string>

#include<iostream>

#include<fstream>

#include<iomanip>

#include<typeinfo>

using namespace std;

class loan

{

private:

int cal;

int age;

int hect;

int bal;

int gold;

int sal;

int prop;

int acno;

string bname;

string name;

int stat;

public:

int req;

void account()

{

int i,j,k,l;

stat=0,bal=0,hect=0,gold=0,prop=0;

string v;

char g;

cout<<"\n\n\n Please enter your application number ";

cin>>req;

cout<<"\n Enter your Name ";

cin>>name;

cout<<"\n Enter your Age ";

cin>>age;

cout<<"\n Enter your Monthly Salary ";

cin>>sal;

cout<<"\n Whether you have any bank account or not Y/N ";

cin>>g;

if(g=='y')

{

stat++;

cout<<"\n Enter bank name ";

cin>>bname;

cout<<"\n Enter the Account number ";

cin>>acno;

cout<<"\n Enter the Amount in your account ";

cin>>bal;

}

else

bal=0;

cout<<"\n Whether you have ornaments or not Y/N ";

cin>>g;

gold=0;

if(g=='y')

{

stat++;

cout<<"\n Enter the quantity of gold that you have (in Grams): ";

cin>>i;

cout<<"\n Enter the quantity of silver that you have (in Grams): ";

cin>>j;

cout<<"\n Enter the quantity of platinum that you have (in Grams): ";

cin>>k;

i=i\*1500;

j=j\*20;

k=k\*5000;

gold=i+j+k;

}

else

gold=0;

cout<<"\n Whether you have a vehicle or not Y/N ";

cin>>g;

prop=0;

if(g=='y')

{

stat++;

i=0,j=0,k=0;

cout<<"\nEnter the Number of vehicle that you have";

cin>>l;

while(l!=0)

{

cout<<"\n Enter the vehicle you have ";

cin>>v;

if(v=="car")

i=i+200000;

else if(v=="bike")

j=j+30000;

else

k+=2000;

l--;

}

prop=i+j+k;

}

else

prop=0;

cout<<"\n Whether you have land or not Y/N ";

cin>>g;

if(g=='y')

{

stat++;

cout<<"\n How many acres that you have ? ";

cin>>hect;

hect=hect\*10000;

}

else

hect=0;

}

void calculate()

{

cal=0;

cal=cal+hect;

cal=cal+bal;

cal=cal+gold;

cal=cal+sal;

cal=cal+prop;

if(age>=50)

cal=cal/2;

else

cal=cal\*0.4;

}

void print()

{

if(stat!=0||sal>=20000)

{

cout<<"\n\n\n";

//cout<<"\nU ARE SOOO LUCKY";

cout<<"\n Loan is sanctioned for "<<name;

cout<<"\n Amount sanctioned is "<<cal;

}

else if(stat==0)

cout<<"\n Apologise you are not eligible for getting loan .....:-( ";

}

void print1()

{

if(stat!=0||sal>=20000)

{

cout<<"\n"<<name;

cout<<"\t Amount sanctioned for you is "<<cal;

}

else if(stat==0)

{

cout<<"\n"<<name;

cout<<"\t\t Sorry you are not eligible for loan.....:-( ";

}

}

friend int search(loan [],int ,int);

};

void intro()

{

cout<<"\n\n\t\t WELCOME TO BANK LOAN SANCTION SYSTEM";

cout<<"\n\n\n\n PROGRAM CODED BY : M.VIGNESH ,C.S.ROY JASPER , S.SIVA KUMARAN ";

cout<<"\n\n\n\n OF MEPCO SCHLINK ENGINEERING COLLEGE ";

cout<<"\n\n\n\n";

}

int search(loan oa[20],int re,int n)

{

for(int i=0;i<n;i++)

{

if(oa[i].req==re)

{

return i;

}

}

}

int main()

{

int re;

int d;

int a[30];

int i=0;

int f;

int n=0;

loan ln[20];

loan oa[20];

intro();

cin.get();

fstream cfile("bank.dat",ios::in|ios::out|ios::trunc|ios::binary);

cout<<"\n\n"<<"\t\t\t"<<"WELCOME TO LOAN SANCTION SYSTEM "<<"\n";

cout<<"\n\nEnter the number of applicants ";

cin>>n;

do

{

cout<<"\n\n\n\t\tMAIN MENU ";

cout<<"\n\n\t01] SUBMMIT APPLICATION FORM FOR LOAN ";

cout<<"\n\n\t02] CHECKING";

cout<<"\n\n\t03] DISPLAY ALL APPLICANTS ";

cout<<"\n\n\t04] EXIT";

cout<<"\n\n\tEnter Your Option (1-4) ";

cin>>f;

switch(f)

{

case 1:

for(int i=0;i<n;i++)

{

ln[i].account();

cfile.seekp(i\*sizeof(loan),ios::beg);

cfile.write((char \*) &ln[i],sizeof(loan));

cfile.seekg(i\*sizeof(loan),ios::beg);

cfile.read((char \*) &oa[i],sizeof(loan));

oa[i].calculate();

cout<<"\n\n You have applied for loan successfully !! ";

}

break;

case 2:

cout<<"\nPlease enter application number for loan verification : ";

cin>>re;

d=search(oa,re,n);

cfile.seekg(d\*sizeof(loan),ios::beg);

cfile.read((char \*)&oa[d],sizeof (loan));

oa[d].calculate();

oa[d].print();

break;

case 3:

cout<<"=========================================================";

cout<<"\nNAME\t\tSTATUS\n";

cout<<"=========================================================";

for(int j=0;j<n;j++)

{

cfile.seekg(j\*sizeof(loan),ios::beg);

cfile.read((char \*)&oa[j],sizeof (loan));

oa[j].calculate();

oa[j].print1();

}

break;

case 4:

cout<<"\n\n\tThanks for using Our System ";

return 0;

break;

default :

cout<<"\n Please enter correct choice...... ";

break;

}

//cin.ignore();

//cin.get();

}while(f!=4);

}

Output:

WELCOME TO BANK LOAN SANCTION SYSTEM

PROGRAM CODED BY : M.VIGNESH ,C.S.ROY JASPER , S.SIVA KUMARAN

OF MEPCO SCHLINK ENGINEERING COLLEGE

WELCOME TO LOAN SANCTION SYSTEM

Enter the number of applicants 2

MAIN MENU

01] SUBMMIT APPLICATION FORM FOR LOAN

02] CHECKING

03] DISPLAY ALL APPLICANTS

04] EXIT

Enter Your Option (1-4) 1

Please enter your application number 1234

Enter your Name roy

Enter your Age 22

Enter your Monthly Salary 6000

Whether you have any bank account or not Y/N n

Whether you have ornaments or not Y/N n

Whether you have a vehicle or not Y/N y

Enter the Number of vehicle that you have 2

Enter the vehicle you have car

Enter the vehicle you have bike

Whether you have land or not Y/N y

How many acres that you have ? 1

You have applied for loan successfully !!

Please enter your application number 4321

Enter your Name vicky

Enter your Age 55

Enter your Monthly Salary 8000

Whether you have any bank account or not Y/N n

Whether you have ornaments or not Y/N y

Enter the quantity of gold that you have (in Grams): 2

Enter the quantity of silver that you have (in Grams): 0

Enter the quantity of platinum that you have (in Grams): 0

Whether you have a vehicle or not Y/N y

Enter the Number of vehicle that you have 1

Enter the vehicle you have car

Whether you have land or not Y/N y

How many acres that you have ? 1

You have applied for loan successfully !!

MAIN MENU

01] SUBMMIT APPLICATION FORM FOR LOAN

02] CHECKING

03] DISPLAY ALL APPLICANTS

04] EXIT

Enter Your Option (1-4) 2

Please enter application number for loan verification : 1234

Loan is sanctioned for roy

Amount sanctioned is 98400

MAIN MENU

01] SUBMMIT APPLICATION FORM FOR LOAN

02] CHECKING

03] DISPLAY ALL APPLICANTS

04] EXIT

Enter Your Option (1-4) 2

Please enter application number for loan verification : 4321

Loan is sanctioned for vicky

Amount sanctioned is 110500

MAIN MENU

01] SUBMMIT APPLICATION FORM FOR LOAN

02] CHECKING

03] DISPLAY ALL APPLICANTS

04] EXIT

Enter Your Option (1-4) 3

=========================================================

NAME STATUS

=========================================================

roy Amount sanctioned for you is 98400

vicky Amount sanctioned for you is 110500

MAIN MENU

01] SUBMMIT APPLICATION FORM FOR LOAN

02] CHECKING

03] DISPLAY ALL APPLICANTS

04] EXIT

Enter Your Option (1-4) 4

Thanks for using Our System