Section : B

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Section : B.

Task 1:

#include<iostream>

#include<string>

using namespace std;

class account

{

protected:

int acountno;

float balance;

string acountdate;

string owner;

public:

float depositmoney(float m)

{

balance=balance+m;

return m;

}

float withdraw(float w)

{

balance=balance-w;

return balance;

}

void setacountno(int n)

{

acountno=n;

}

void setbalance(float b)

{

balance=b;

}

void setacountdate(int d)

{

acountdate=d;

}

void setowner(string o)

{

owner=o;

}

int getacountno()

{

return acountno;

}

float getbalance()

{

return balance;

}

string getacountdate()

{

return acountdate;

}

string getowner()

{

return owner;

}

};

class savingaccount:public account

{

protected:

float interestrate;

int moneydeposit;

int nomonths;

public:

void changeinterestrate(int c)

{

interestrate=c;

}

float getbalance()

{

balance=moneydeposit+interestrate\*nomonths\*moneydeposit;

return balance;

}

};

class checkingaccount : public account,public savingaccount

{

protected:

float insufficientfundfee;

public:

void changeinterestrate(float c)

{

interestrate=c;

}

float getbalance()

{

return (moneydeposit+interestrate\*nomonths\*moneydeposit);

}

};

class customer

{

protected:

string cnic;

string name;

string address;

string pno;

public:

void setcnic(string s)

{

cnic=s;

}

void setname(string n)

{

name=n;

}

void setaddress(string add)

{

address=add;

}

void setpno(string pn)

{

pno=pn;

}

string getcnic()

{

return cnic;

}

string getname()

{

return name;

}

string getaddress()

{

return address;

}

string getpno()

{

return pno;

}

};

int main()

{

int choice=0;

int size=2;

string cnic;

string name;

string address;

string pno;

int accountno=0;

float balance=0;

string accountdate;

string owner;

int money;

account ptr;

customer c;

//ptr=new account[size];

cout<<"1 :bank operation "<<endl;

cout<<"2 :exit"<<endl;

cin>>choice;

if(choice==1)

{

cout<<"1 : create new account "<<endl;

cout<<"2 :search account "<<endl;

cout<<"3 :exit"<<endl;

cin>>choice;

if(choice==1)

{

size++;

//ptr=new account[size];

/\*cout<<"1 :chacking account "<<endl;

cout<<"2 :saving account"<<endl;

cout<<"3 :goback to previous menu "<<endl;\*/

cout<<"enter your cnic : ";

cin>>cnic;

c.setcnic(cnic);

cout<<"eneter your name : ";

cin>>name;

c.setname(name);

cout<<"enter your address : ";

cin>>address;

c.setaddress(address);

cout<<"enter your pno : ";

cin>>pno;

c.setpno(pno);

cout<<"eneter balance : ";

cin>>balance;

ptr.setbalance(balance);

cout<<"your aconut is created succesfully"<<endl;

cout<<"1 : for back manu"<<endl;

cout<<"2 :for exit"<<endl;

cin>>choice;

}

else if(choice==2)

{

cout<<"enter acount no : ";

cin>>accountno;

if(accountno==ptr.getacountno())

{

cout<<"acount owner name : "<<ptr.getowner()<<endl;

cout<<"acount balance : "<<ptr.getbalance()<<endl;

cout<<"1 : deposit money"<<endl;

cout<<"2 : withdraw money"<<endl;

cout<<"3 : viw balance"<<endl;

cout<<"4 : exit"<<endl;

cin>>choice;

if(choice==1)

{

cout<<"eneter money that you want to deposit : ";

cin>>money;

ptr.depositmoney(money);

}

else if(choice==2)

{

cout<<"eneter money that you want to withdraw : ";

cin>>money;

ptr.withdraw(money);

}

else if(choice==3)

{

cout<<"you balance is : "<<ptr.getbalance();

}

else if(choice==4)

{

system("pause");

return 0;

}

else

{

cout<<"invalid key number is entered"<<endl;

}

}

else

{

cout<<"account not found"<<endl;

}

}

else if(choice==3)

{

system("pause");

return 0;

}

else

{

cout<<"invalid key"<<endl;

}

}

else if(choice==2)

{

system("pause");

return 0;

}

else

{

cout<<"you press invalid key"<<endl;

}

system("pause");

return 0;

}

Result:

