#include <iostream>

#include <string>

class account{

private:

std::string name;

int accno;

std::string atype;

public:

void getAccountDetails(){

std::cout<<"Enter your name:";

std::cin>>name;

std::cout<<"Enter account number:";

std::cin>>accno;

std::cout<<"Enter the account type:";

std::cin>>atype;

}

void displayDetails(){

std::cout<<name<<" WELCOME TO OUR BANK!"<<std::endl;

std::cout<<"your account number is "<<accno<<std::endl;

std::cout<<"your account type is "<<atype<<std::endl;

}

};

class current\_account:public account{

private:

float balance=500;

public:

void c\_display(){

std::cout<<"\nBALANCE IN YOUR CURRENT ACCOUNT:"<<balance;

}

void c\_deposit(){

float deposit;

std::cout<<"enter the amount to deposit:";

std::cin>>deposit;

balance=balance+deposit;

std::cout<<"BALANCE AMOUNTE AFTER DEPOSITED:"<<balance;

}

void c\_withdraw(){

float withdraw;

std::cout<<"\n\nBALANCE:"<<balance;

std::cout<<"\nenter the amount to be withdraw:";

std::cin>>withdraw;

if(balance>1000){

balance=balance-withdraw;

std::cout<<"BALANCE AMOUNT AFTER WITHDRAW:"<<balance<<std::endl;

}

else{

std::cout<<"INSUFFICIENT BALANCE IN YOUR CURRENT ACCOUNT "<<std::endl;

}

}

};

class saving\_account:public account{

private:

float sav\_balance=1000;

public:

void s\_display(){

std::cout<<"BALANCE IN YOUR SAVINGS ACCOUNT:"<<sav\_balance;

}

void s\_deposit(){

float deposit,interest;

std::cout<<"\nENTER THE AMOUNT TO BE DEPOSIT:";

std::cin>>deposit;

sav\_balance=sav\_balance+deposit;

interest=(sav\_balance\*2)/100;

sav\_balance=sav\_balance+interest;

std::cout<<"BALANCE AMOUNT AFTER DEPOSITED:"<<sav\_balance;

}

void s\_withdraw(){

float withdraw;

std::cout<<"\nBALANCE:"<<sav\_balance<<std::endl;

std::cout<<"\nENTER THE AMOUNT TO BE WITHDRAW:";

std::cin>>withdraw;

if(sav\_balance>500){

sav\_balance=sav\_balance-withdraw;

std::cout<<"BALANCE AMOUNT AFTER WITHDRAW:"<<sav\_balance;

}

else{

std::cout<<"INSUFFICIENT BALANCE IN YOUR SAVINGS ACCOUNT";

}

}

};

int main() {

current\_account c1;

saving\_account s1;

char type;

std::cout<<"WELCOME TO OUR BANK!!"<<std::endl;

std::cout<<"ENTER S FOR SAVING ACCOUNT OR C FOR CURRENT ACCOUNT:";

std::cin>>type;

int choice;

if(type=='s' or type=='S'){

s1.getAccountDetails();

while(1){

std::cout<<"\nCHOOSE YOUR CHOICE:"<<std::endl;

std::cout<<"1) DEPOSIT"<<std::endl;

std::cout<<"2) WITHDRAW"<<std::endl;

std::cout<<"3) DISPLAY BALANCE"<<std::endl;

std::cout<<"4) DISPLAY FULL DETAILS"<<std::endl;

std::cout<<"5) EXIT"<<std::endl;

std::cout<<"ENTER YOUR CHOICE:";

std::cin>>choice;

switch(choice){

case 1:

s1.s\_deposit();

break;

case 2:

s1.s\_withdraw();

break;

case 3:

s1.s\_display();

break;

case 4:

s1.displayDetails();

s1.s\_display();

break;

case 5:

goto end;

default:

std::cout<<"\n\n ENTERED CHOICE IS INVALID,\"TRYAGAIN\"";

}

}

}

else if(type=='c' or type=='C'){

c1.getAccountDetails();

while(1){

std::cout<<"\nCHOOSE YOUR CHOICE:"<<std::endl;

std::cout<<"1) DEPOSIT"<<std::endl;

std::cout<<"2) WITHDRAW"<<std::endl;

std::cout<<"3) DISPLAY BALANCE"<<std::endl;

std::cout<<"4) DISPLAY FULL DETAILS"<<std::endl;

std::cout<<"5) EXIT"<<std::endl;

std::cout<<"ENTER YOUR CHOICE:";

std::cin>>choice;

switch(choice){

case 1:

c1.c\_deposit();

break;

case 2:

c1.c\_withdraw();

break;

case 3:

c1.c\_display();

break;

case 4:

c1.displayDetails();

c1.c\_display();

break;

case 5:

goto end;

default:

std::cout<<"\n\n ENTERED CHOICE IS INVALID,\"TRYAGAIN\"";

}

}

}

else{

std::cout<<"INVALID ACCOUNT SELECTION";

}

end:

std::cout<<"\n THANK YOU FOR BANKING WITH US!! ";

return 0;

}

## OUTPUT

/tmp/XAFCjIpNBh.o

WELCOME TO OUR BANK!!

ENTER S FOR SAVING ACCOUNT OR C FOR CURRENT ACCOUNT:S

Enter your name:RISHI

Enter account number:1234567890

Enter the account type:SAVINGS

CHOOSE YOUR CHOICE:

1) DEPOSIT

2) WITHDRAW

3) DISPLAY BALANCE

4) DISPLAY FULL DETAILS

5) EXIT

ENTER YOUR CHOICE:4

RISHI WELCOME TO OUR BANK!

your account number is 1234567890

your account type is SAVINGS

BALANCE IN YOUR SAVINGS ACCOUNT:1000

CHOOSE YOUR CHOICE:

1) DEPOSIT

2) WITHDRAW

3) DISPLAY BALANCE

4) DISPLAY FULL DETAILS

5) EXIT

ENTER YOUR CHOICE:1

ENTER THE AMOUNT TO BE DEPOSIT:10000

BALANCE AMOUNT AFTER DEPOSITED:11220

CHOOSE YOUR CHOICE:

1) DEPOSIT

2) WITHDRAW

3) DISPLAY BALANCE

4) DISPLAY FULL DETAILS

5) EXIT

ENTER YOUR CHOICE:5

THANK YOU FOR BANKING WITH US!!