#include<iostream>

#include<string.h>

#include<stdlib.h>

using namespace std;

struct Logindetails

{

char usrname[10];

char pwd[10];

float balance;

struct Logindetails \*next;

};

struct Logindetails \*head=new Logindetails;

struct Logindetails NewNode(char usrname[10],char pwd[10])

{

struct Logindetails \*ptr = new Logindetails;

strcpy(ptr->usrname,usrname);

strcpy(ptr->pwd,pwd);

ptr->balance=0;

ptr->next = NULL;

return \*ptr;

}

void displayusers(struct Logindetails \*head)

{

struct Logindetails \*ptr=new Logindetails;

ptr=head;

while(ptr!=NULL)

{

cout<<"Username: "<<ptr->usrname<<" Password: "<<ptr->pwd<<endl;

ptr=ptr->next;

}

delete ptr;

}

int traverse(struct Logindetails \*head,char temp[10])

{

struct Logindetails \*ptr=new Logindetails;

ptr=head;

while(strcmp(ptr->usrname,temp)!=0)

{

if(ptr->next==NULL)

return 1;

ptr=ptr->next;

}

return 0;

}

struct Logindetails search(struct Logindetails \*head,char temp[10])

{

struct Logindetails \*ptr=new Logindetails;

ptr=head;

while(1)

{

if(strcmp(ptr->usrname,temp)==0)

return \*ptr;

ptr=ptr->next;

}

}

void signup(struct Logindetails \*head)

{

char temp[10] , pwd[10];

struct Logindetails \*ptr=new Logindetails;

ptr=head;

while(ptr->next!=NULL)

{

ptr=ptr->next;

}

struct Logindetails \*lptr=new Logindetails;

cout<<"Username: ";

cin>>temp;

int x=traverse(head,temp);

if(x==1)

{

cout<<"Password: ";

cin>>pwd;

\*lptr = NewNode(temp , pwd);

ptr->next =lptr;

cout<<"Account created Successfully\n";

}

else

{

cout<<"user already exist\n";

}

//delete ptr;

}

void deposit(struct Logindetails \*current)

{

float amt;

cout<<"Deposit Amount: ";

cin>>amt;

current->balance=current->balance+amt;

cout<<"Amount credited is "<<amt<<endl<<"Balance: "<<current->balance<<endl;

}

void withdrawl(struct Logindetails \*current)

{

float amt;

cout<<"Withdrawl Amount: ";

cin>>amt;

current->balance=current->balance-amt;

cout<<"Amount debited is "<<amt<<endl<<"Balance: "<<current->balance<<endl;

}

void login(struct Logindetails \*head)

{

char temp[10];

cout<<"Username: ";

cin>>temp;

int x=traverse(head,temp);

if(x==1)

{

cout<<"User not found\n";

}

else

{

struct Logindetails \*current =new Logindetails;

\*current=search(head,temp);

cout<<"Password: ";

cin>>temp;

if(strcmp(current->pwd,temp)==0)

{

cout<<"logged in Successfully\n";

while(1)

{

cout<<" 1.Deposit\n 2.Withdrawl\n 3.Balance\n4.Exit\n";

cin>>x;

switch(x)

{

case 1:

{

deposit(current);

break;

}

case 2:

{

withdrawl(current);

break;

}

case 3:

{

cout<<"Balance: "<<current->balance<<endl;

break;

}

case 4:

{

exit(1);

}

}

}

}

else

cout<<"Wrong Password\n";

}

}

int main()

{

\*head = NewNode("admin","admin");

head->next=NULL;

int choice=0;

while(1)

{

cout<<"################## Welcome to RAD Online Banking Portal##################\n"<<" 1.Sign up\n 2.Log in\n 3.RegisteredUser List\n 4.exit\n";

cout<<"Enter your choice: ";

cin>>choice;

switch(choice)

{

case 1:

{

signup(head);

break;

}

case 2:

{

login(head);

break;

}

case 3:

{

//printf("123");

displayusers(head);

break;

}

case 4:

{

exit(1);

}

}

}

}