#include<stdio.h>

#include<string.h>

#include<stdlib.h>

struct user {

char phone[50];

char ac[50];

char password[50];

float balance;

};

int main(){

struct user user,usr;

char filename[50],phone[50],password[50],phone2[50];

FILE \*fp,\*fptr;

int opt,choice;

int amount;

char cont = 'y';

printf("\nWhat do you want to do?");

printf("\n\n1.Register your account");

printf("\n2.Login to your account");

printf("\n\nPlease enter your choice:\t");

scanf("%d",&opt);

if(opt == 1){

system("clear");

printf("\nEnter your account number:\t");

scanf("%s",user.ac);

printf("Enter your phone number:\t");

scanf("%s",user.phone);

printf("Enter your new password:\t");

scanf("%s",user.password);

user.balance=0;

stpcpy(filename,user.phone);

fp=fopen(strcat(filename,".dat"),"w");

fwrite(&user,sizeof(user),1,fp);

if(fwrite != 0){

printf("Succesfully registered");

}

}

else if(opt == 2){

system("clear");

printf("\nPhone No.:\t");

scanf("%s",phone);

printf("Password:\t");

scanf("%s",password);

fp = fopen(strcat(phone,".dat"),"r");

if(fp == NULL) printf("Account number not registered");

else {

fread(&user,sizeof(struct user),1,fp);

fclose(fp);

if(!strcmp(password,user.password)){

while(cont == 'y'){

system("clear");

printf("\n\tWelcome %s",user.phone);

printf("\nPress 1 for balance inquiry");

printf("\nPress 2 for adding fund");

printf("\nPress 3 for cash withdraw");

printf("\nPress 4 for online transfer");

printf("\nPress 5 for changing password\n\n");

scanf("%d",&choice);

switch(choice){

case 1:

printf("Your current balance is Rs. %.2f",user.balance);

break;

case 2:

system("clear");

printf("Enter amount to be added:\t");

scanf("%d",&amount);

user.balance += amount;

fp = fopen(phone,"w");

fwrite(&user,sizeof(struct user),1,fp);

if(fwrite !=0) printf("\n\nYou have depostied Rs.%d",amount);

fclose(fp);

break;

case 3:

system("clear");

printf("Enter withdrawl amount:\t");

scanf("%d",&amount);

if(amount % 500 != 0) printf("\nSorry amount should be multiple of 500");

else if(amount>user.balance) printf("\nSorry insufficeint balance");

else {

user.balance -= amount;

fp = fopen(phone,"w");

fwrite(&user,sizeof(struct user),1,fp);

if(fwrite !=0) printf("\n\nYou have withdrawn Rs.%d",amount);

fclose(fp);

}

break;

case 4:

printf("Please enter the phone number to trasnfer balance:\t");

scanf("%s",phone);

printf("Enter the amount to transfer:\t");

scanf("%d",&amount);

if(amount > user.balance) printf("\nSorry insufficent balance");

else {

fptr = fopen(strcat(phone,".dat"),"r");

if(fptr==NULL) printf("Sorry number is not registered");

else {

fread(&usr,sizeof(struct user),1,fptr);

fclose(fptr);

usr.balance += amount;

fptr = fopen(phone,"w");

fwrite(&usr,sizeof(struct user),1,fptr);

if(fwrite != 0){

// printf("ACcount:%s",usr.ac);

// printf("\npassword%s",usr.password);

// printf("\nphone%s",usr.phone);

// printf("\nbalance%f",usr.balance);

printf("Your trasfer is completed. You have trasnfered Rs.%d to %s",amount,usr.phone);

fclose(fptr);

user.balance -= amount;

strcpy(filename,user.phone);

fp = fopen(strcat(filename,".dat"),"w");

fwrite(&user,sizeof(struct user),1,fp);

fclose(fp);

}

}

}

break;

case 5:

printf("\n\nPlease enter your old password:\t");

scanf("%s",password);

if(!strcmp(password,user.password)){

printf("\n\nPlease enter your new password:\t");

scanf("%s",password);

strcpy(user.password,password);

strcpy(filename,user.phone);

fp = fopen(strcat(filename,".dat"),"w");

fwrite(&user,sizeof(struct user),1,fp);

fclose(fp);

printf("\nPassword succesfullly changed");

}else printf("\nSorry your password is wrong");

default:

break;

}//switch ends here

printf("\n\nDo you want to continue?[y/n]:\t");

scanf("%s",&cont);

}

}

else {

printf("Invalid password");

}

}

printf("\n\n\*\*\*Thank you for banking with ADV. bank\*\*\*\n\n");

}

return 0;

}