#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

void input();

void writefile();

void search();

void output();

struct date{

int month;

int day;

int year;

};

struct account {

int number;

char name[100];

int acct\_no;

float mobile\_no;

char street[100];

char city[100];

char acct\_type;

float oldbalance;

float newbalance;

float payment;

struct date lastpayment;

}customer;

int tl,sl,ts;

void main()

{

int i,n;

char ch;

clrscr();

\_setcursortype(\_NOCURSOR);

printf(" CUSTOMER BILLING SYSTEM:\n\n");

printf("===============================\n");

printf("\n1: to add account on list\n");

printf("2: to search customer account\n");

printf("3: exit\n");

printf("\n================================\n");

do{

printf("\nselect what do you want to do?");

ch=getche();

}while(ch<='0' || ch>'3');

switch(ch){

case '1':

clrscr();

printf("\nhow many customer accounts?");

scanf("%d",&n);

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

input();

if(customer.payment>0)

customer.acct\_type=(customer.payment<0.1\*customer.oldbalance)? 'O': 'D';

else

customer.acct\_type=(customer.oldbalance>0)?'D' : 'C';

customer.newbalance=customer.oldbalance - customer.payment;

writefile();

}

main();

case '2':

clrscr();

printf("search by what?\n");

printf("\n1 --- search by customer number\n");

printf("2 --- search by customer name\n");

search();

ch=getche();

main();

case '3':

clrscr();

delay(700);

textcolor(RED);

gotoxy(25,25);

cprintf("\nA PROJECT BY BIDUR & SUJAN");

delay(1500);

exit(1);

}

}

void input()

{

FILE \*fp=fopen("bidur.dat","rb");

fseek (fp,0,SEEK\_END);

tl=ftell(fp);

sl=sizeof(customer);

ts=tl/sl;

fseek(fp,(ts-1)\*sl,SEEK\_SET);

fread(&customer,sizeof(customer),1,fp);

printf("\ncustomer no:%d\n",++customer.number);

fclose(fp);

printf(" Account number:");

scanf("%d",&customer.acct\_no);

printf("\n Name:");

scanf("%s",customer.name);

printf("\n mobile no:");

scanf("%f",&customer.mobile\_no);

printf(" Street:");

scanf("%s",customer.street);

printf(" City:");

scanf("%s",customer.city);

printf(" Previous balance:");

scanf("%f",&customer.oldbalance);

printf(" Current payment:");

scanf("%f",&customer.payment);

printf(" Payment date(mm/dd/yyyy):");

scanf("%d/%d/%d",&customer.lastpayment.month,&customer.lastpayment.day,&customer.lastpayment.year);

return;

}

void writefile()

{

FILE \*fp;

fp=fopen("bidur.dat","ab");

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

fclose(fp);

return;

}

void search()

{

char ch;

char nam[100];

int n,i,m=1;

FILE \*fp;

fp=fopen("bidur.dat","rb");

do{

printf("\nenter your choice:");

ch=getche();

}while(ch!='1' && ch!='2');

switch(ch){

case '1':

fseek(fp,0,SEEK\_END);

tl=ftell(fp);

sl=sizeof(customer);

ts=tl/sl;

do{

printf("\nchoose customer number:");

scanf("%d",&n);

if(n<=0 || n>ts)

printf("\nenter correct\n");

else{

fseek(fp,(n-1)\*sl,SEEK\_SET);

fread(&customer,sl,1,fp);

output();

}

printf("\n\nagain?(y/n)");

ch=getche();

}while(ch=='y');

fclose(fp);

break;

case '2':

fseek(fp,0,SEEK\_END);

tl=ftell(fp);

sl=sizeof(customer);

ts=tl/sl;

fseek(fp,(ts-1)\*sl,SEEK\_SET);

fread(&customer,sizeof(customer),1,fp);

n=customer.number;

do{

printf("\nenter the name:");

scanf("%s",nam);

fseek(fp,0,SEEK\_SET);

for(i=1;i<=n;i++)

{

fread(&customer,sizeof(customer),1,fp);

if(strcmp(customer.name,nam)==0)

{

output();

m=0;

break;

}

}

if(m!=0)

printf("\n\ndoesn't exist\n");

printf("\nanother?(y/n)");

ch=getche();

}while(ch=='y');

fclose(fp);

}

return;

}

void output()

{

printf("\n\n Customer no :%d\n",customer.number);

printf(" Name :%s\n",customer.name);

printf(" Mobile no :%.f\n",customer.mobile\_no);

printf(" Account number :%d\n",customer.acct\_no);

printf(" Street :%s\n",customer.street);

printf(" City :%s\n",customer.city);

printf(" Old balance :%.2f\n",customer.oldbalance);

printf(" Current payment:%.2f\n",customer.payment);

printf(" New balance :%.2f\n",customer.newbalance);

printf(" Payment date :%d/%d/%d\n\n",customer.lastpayment.month,customer.lastpayment.day,customer.lastpayment.year);

printf(" Account status :");

textcolor(128+RED);

switch(customer.acct\_type)

{

case 'C':

cprintf("CURRENT\n\n");

break;

case 'O':

cprintf("OVERDUE\n\n");

break;

case 'D':

cprintf("DELINQUENT\n\n");

break;

default:

cprintf("ERROR\\n\n");

}

textcolor(WHITE);

return;

}