#include<fstream.h>

#include<iostream.h>

#include<stdlib.h>

#include<stdio.h>

#include<conio.h>

#include<string.h>

class chemist\_shop

{

private:

int c\_code;

char c\_name[40];

int c\_discount;

float c\_price;

float c\_quantity;

public:

void getdata();

void mod(int n);

void putdata();

int ret\_disc()

{

return c\_discount;

}

int rett\_code()

{

return c\_code;

}

char \*ret\_nm()

{

return c\_name;

}

float ret\_pr()

{

return c\_price;

}

float ret\_qty()

{

return c\_quantity;

}

};

void write();

void modify();

void del();

void search\_all();

void search\_id();

void search\_nm();

void search\_pr();

void search\_qty();

void purchase();

void title()

{

gotoxy(15,9);

cout<<"ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ";

gotoxy(15,10);

cout<<"ÛÛ ÛÛ";

gotoxy(15,11);

cout<<"ÛÛ ÛÛ";

gotoxy(15,12);

cout<<"ÛÛ ÛÛ";

gotoxy(15,13);

cout<<"ÛÛ ÛÛ";

gotoxy(15,14);

cout<<"ÛÛ þþþTITLEþþþ ÛÛ";

gotoxy(15,15);

cout<<"ÛÛ Chemist Shop ÛÛ";

gotoxy(15,16);

cout<<"ÛÛ ÛÛ";

gotoxy(15,17);

cout<<"ÛÛ ÛÛ";

gotoxy(15,18);

cout<<"ÛÛ ÛÛ";

gotoxy(15,19);

cout<<"ÛÛ ÛÛ";

gotoxy(15,20);

cout<<"ÛÛ ÛÛ";

gotoxy(15,21);

cout<<"ÛÛ ÛÛ";

gotoxy(15,22);

cout<<"ÛÛ ÛÛ";

gotoxy(15,23);

cout<<"ÛÛ ÛÛ";

gotoxy(15,24);

cout<<"ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ";

getch();

}

void mmenu()

{ clrscr();

gotoxy(15,5);

cout<<"ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ";

gotoxy(15,6);

cout<<"ÛÛ ÛÛ";

gotoxy(15,7);

cout<<"ÛÛ ÛÛ";

gotoxy(15,8);

cout<<"ÛÛ MAIN MENU ÛÛ";

gotoxy(15,9);

cout<<"ÛÛ ÛÛ";

gotoxy(15,10);

cout<<"ÛÛ ÛÛ";

gotoxy(15,11);

cout<<"ÛÛ 1.File menu ÛÛ";

gotoxy(15,12);

cout<<"ÛÛ 2.Search ÛÛ";

gotoxy(15,13);

cout<<"ÛÛ 3.Purchase ÛÛ";

gotoxy(15,14);

cout<<"ÛÛ 4.Exit ÛÛ";

gotoxy(15,15);

cout<<"ÛÛ ÛÛ";

gotoxy(15,16);

cout<<"ÛÛ ÛÛ";

gotoxy(15,17);

cout<<"ÛÛ ÛÛ";

gotoxy(15,18);

cout<<"ÛÛ ÛÛ";

gotoxy(15,19);

cout<<"ÛÛ ÛÛ";

gotoxy(15,20);

cout<<"ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ";

cout<<"\n\n\nþþþ ENTER YOUR CHOICE þþþ ";

}

void filem()

{

int t;

do{

clrscr();

gotoxy(25,7);

cout<<" ììì FILE MAINTAINANCE MENU ììì";

gotoxy(15,10);

cout<<" 1.Addition";

gotoxy(15,12);

cout<<" 2.Modification";

gotoxy(15,14);

cout<<" 3.Deletion";

gotoxy(15,16);

cout<<" 4.Exit";

cin>>t;

switch(t)

{

case 1: write();

break;

case 2: modify();

break;

case 3: del();

break;

case 4: return;

default: cout<<"Invalid Choice";

getch();

}

}while(t!=4);

}

void search()

{

int t;

do{

clrscr();

gotoxy(25,7);

cout<<"\n ìììSEARCH MENUììì";

gotoxy(15,12);

cout<<"\n 1.display all records";

gotoxy(15,14);

cout<<"\n 2.Display on the basis of code";

gotoxy(15,16);

cout<<"\n 3.Display on the basis of Medicine name";

gotoxy(15,18);

cout<<"\n 4.Display on the basis of Price";

gotoxy(15,20);

cout<<"\n 5.Display on the basis of quantity";

gotoxy(15,22);

cout<<"\n 6.Exit";

cin>>t;

switch(t)

{

case 1: search\_all();

break;

case 2: search\_id();

break;

case 3: search\_nm();

break;

case 4: search\_pr();

break;

case 5: search\_qty();

break;

case 6: return;

default: cout<<"\n Invalid Choice";

getch();

}

}while(t!=6);

}

struct pur

{

int cid;

char cnm[40];

int qty;

float disc;

float price;

float amt;

};

pur p[10];

double totamt;

pur find\_rec(int n)

{

pur p;

ifstream f;

f.open("chemist.dat",ios::binary);

chemist\_shop c;

int flg=0;

while(f.read((char\*)&c,sizeof(c)))

{

if(c.rett\_code()==n)

{ flg=1;

p.cid=n;

strcpy(p.cnm,c.ret\_nm());

p.price=c.ret\_pr();

p.disc=c.ret\_disc();

break;

}

}

f.close();

if(flg==0){cout<<"Record not found";getch();}

return p; }

void billing(int i)

{

double totamt=0,d=0;

clrscr();

gotoxy(7,9);

cout<<"\n\n";

gotoxy(7,10);

cout<<"\n \n";

gotoxy(7,11);

cout<<"\n \n";

gotoxy(7,12);

cout<<"\n \n";

gotoxy(7,13);

cout<<"\n \n";

gotoxy(7,14);

cout<<"\n-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*--\*-\*-\*BILL-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\n";

gotoxy(7,15);

cout<<"\n \n";

gotoxy(7,16);

cout<<"\n==========================================================\n";

gotoxy(7,17);

cout<<"\n \n";

gotoxy(7,18);

cout<<"\nMedicine Medicine qty rate disc value \n";

gotoxy(7,19);

cout<<"\n id name \n";

gotoxy(7,20);

cout<<"\n \n";

gotoxy(7,21);

cout<<"\n \n";

gotoxy(7,22);

cout<<"\n \n";

gotoxy(7,23);

for( int k=0;k<i;k++ )

{

cout<<"\n"<<""<<p[k].cid<<"\t\t"<<p[k].cnm<<"\t"<<p[k].qty<<"\t"<<p[k].price

<<"\t"<<double(p[k].disc/100)<<"\t"<<p[k].amt-(double(p[k].amt\*p[k].disc)/100)<<" ";

d+=(double(p[k].amt\*p[k].disc)/100);

totamt+=double(p[k].amt);

gotoxy(7,24);

cout<<"\n\n";

}

cout<<"\n\n\n þþTotal amount= "<<totamt;

cout<<"\n þþDiscount= "<<d;

cout<<"\n þþNet amount= "<<totamt-d;

getch();

}

void purchase()

{

int i=0;

int cid,q;

char resp='y';

while(resp=='y')

{

clrscr();

cout<<"\n\n\nMedicine ID(enter 0 to exit)";

cin>>cid;

if(cid==0)

break;

p[i]=find\_rec(cid);

cout<<"\n Medicine name:"<<p[i].cnm;

cout<<"\nMedicine price:"<<p[i].price;

cout<<"\nEnter quantity to purchase:";

cin>>p[i].qty;

p[i].amt=p[i].price\*p[i].qty;

totamt+=p[i].amt;

i++;

cout<<"do you want to purchase more(y/n)?";

cin>>resp;

}

billing(i);

}

void start()

{

int ch;

do

{

clrscr();

mmenu();

cin>>ch;

switch(ch)

{

case 1: filem();

break;

case 2: search();

break;

case 3: purchase();

break;

case 4: exit(1);

break;

default: cout<<"Invalid Choice";

}

}while(ch!=4); }

void chemist\_shop::getdata()

{

cout<<"\n Enter code";

cin>>c\_code;

cout<<"\n Enter name";

gets(c\_name);

cout<<"\nEnter discount";

cin>>c\_discount;

cout<<"\nEnter price";

cin>>c\_price;

cout<<"\n Ener quantity";

cin>>c\_quantity;

};

void chemist\_shop::mod(int n)

{

clrscr();

c\_code=n;

cout<<"\n Enter code"<<c\_code;

cout<<"\n Enter name";

cin>>c\_name;

cout<<"\n Enter discount";

cin>>c\_discount;

cout<<"\nEnter price";

cin>>c\_price;

cout<<"\nEnter quantity";

cin>>c\_quantity;

};

void chemist\_shop::putdata()

{

clrscr();

cout<<"\nCode"<<c\_code;

cout<<"\nName"<<c\_name;

cout<<"\nDiscount"<<c\_discount;

cout<<"\nPrice"<<c\_price;

cout<<"\nQuantity"<<c\_quantity;

};

void write()

{

clrscr();

ofstream f("chemist.dat",ios::app|ios::binary|ios::app);

chemist\_shop c;

char ans;

do{

c.getdata();

f.write((char\*)&c,sizeof(c));

cout<<"\nWant to enter more(y/n):";

cin>>ans;

}while(ans=='y');

f.close();

}

void search\_all()

{

ifstream f("chemist.dat",ios::binary);

chemist\_shop c;

while (f.read((char\*)&c,sizeof(c)))

{

c.putdata();

getch();

}

f.close();

}

void modify()

{

int no,found=0;

clrscr();

cout<<"\n\n\tTo Modify";

cout<<"\n\n\tPlease enter the product no. of the product";

cin>>no;

fstream f("chemist.dat",ios::in|ios::out|ios::binary);

chemist\_shop pr;

while(f.read((char\*)&pr,sizeof(pr))&&(found==0))

{

if(pr.rett\_code()==no)

{

pr.putdata();

cout<<"\nPlease enter the new details of Product"<<endl;

pr.mod(no);

int pos=f.tellg()-sizeof(pr);

f.seekp(pos);

f.write((char\*)&pr,sizeof(pr));

cout<<"\n\nRecord updated";

found=1;

break;

}

}

f.close();

}

void del()

{

int no,found =0;

clrscr();

cout<<"\n\n\tTo Delete";

cout<<"\n\n\tPlease enter the medicine no. to delete";

cin>>no;

fstream f("chemist.dat",ios::in|ios::binary);

fstream f1("c.dat",ios::out|ios::binary);

chemist\_shop pr;

while(f.read((char\*)&pr,sizeof(pr))&&(found==0))

{

if(pr.rett\_code()!=no)

f1.write((char\*)&pr,sizeof(pr));

}

f.close();

f1.close();

remove("chemist.dat");

rename("c.dat","chemist.dat");

}

void search\_id()

{

ifstream f;

f.open("chemist.dat",ios::binary);

chemist\_shop c;

int c\_code;

cout<<"\n enter code";

cin>>c\_code;

while(f.read((char\*)&c,sizeof(c)))

{

if(c.rett\_code()==c\_code)

{

c.putdata();

getch();

}}

f.close();

};

void search\_pr()

{

ifstream f;

f.open("chemist.dat",ios::binary);

chemist\_shop c;

int price;

cout<<"\n enter price(to search less than or equal to price)";

cin>>price;

while(f.read((char\*)&c,sizeof(c)))

{

if(c.ret\_pr()<=price)

{

c.putdata();

getch();

}}

f.close();

};

void search\_qty()

{

ifstream f;

f.open("chemist.dat",ios::binary);

chemist\_shop c;

int qty;

cout<<"\n Enter qty(to search less than or equal to qty)";

cin>>qty;

while(f.read((char\*)&c,sizeof(c)))

{

if(c.ret\_qty()<=qty)

{

c.putdata();

getch();

}}

f.close();

};

void search\_nm()

{

ifstream f;

f.open("chemist.dat",ios::binary);

chemist\_shop c;

char cnm[40];

cout<<"\n enter name of medicine to search";

gets(cnm);

while(f.read((char\*)&c,sizeof(c)))

{

if(strcmpi(c.ret\_nm(),cnm)==0)

{

c.putdata();

getch();

}}

f.close();

};

int main()

{

clrscr();

title();

mmenu();

/\*mod();

del();

getch();

\*/

start();

getch();

return 0;

}