

**CHANDAN KUMAR(21103040)**

**GURPARTAP(21103053)**

# ***OOPS PROJECT CODE***

CG Pharmaceutical Management System

## **IMPLEMENTATION OF CODE**

```
#include<iostream>
```

```
#include<iomanip>
```

```
#include<fstream>
```

```
#include<cstring>
```

```
using namespace std;
```

```
int count=0,j=0,m=0;
```

```
class item    // c
```

```
{
```

```
public:
```

```
    string itemname;
```

```
    float price;
```

```
    int stock;
```

```
    ~item()
```

```
{
```

```
        stock=0;
```

```
}
```

```
    friend void add(item a[],int h);
```

```
    friend void display(item b[],int j);
```

```
};
```

```
class person // c
```

```
{
```

```
protected:
```

```
    string name;
```

```
public:
```

```
    void getname()
```

```
{
```

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```
        cout<<"\n\t\t\t\t\tEnter your name:";
        cin>>name;
    }

};

class admin:public person //c
{

    string pin,cpin;
public:
    admin()
    {
        cout<<"\n\t\t\t\t\tEnter your name:";
        cin>>name;
set:
        cout<<"\n\t\t\t\t\tSet your pin:";
        cin>>pin;
        cout<<"\n\t\t\t\t\tConfirm your pin:";
        cin>>cpin;

        if(pin==cpin)
        {
            cout<<"\n\t\t\t\t\tAccount created successfully.\n";
            ofstream fp;
            fp.open("admin.txt");
            fp<<cpin<<endl;
            fp.close();

        }
        else
        {
            cout<<"\n\t\t\t\t\tInvalid pin !!!\n";
            goto set;
        }

    }

    friend void update(item x[],int j,int y);      // friend function
    friend void adminupdate(item x[],int j,int y); // friend function
```

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};

```
class customer:public person //c
{
    string mail,ph;           // v

    float bill=0;             // v
public:
    void getdetails()
    {
        cout<<"\n\t\t\t\t\tEnter your phone number:";
        cin>>ph;
        cout<<"\n\t\t\t\t\tEnter your mail-id:";
        cin>>mail;

    }
    void buy(item o[]);
};

class cart // c
{
public:

    string iname;             // v
    int quant;
    float rate,sum=0;

    friend void displaybill(cart d[],int m,float bill);
    void updatecart(string a,int q,float p)
    {
        iname=a;
        quant=q;
        rate=p;
        sum=q*p;

    }
};
```

```
void update(item x[],int j,int y)
```

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```
{
    x[j].stock = x[j].stock - y;
}
void adminupdate(item x[],int j,int y)
{
    x[j].stock = y;
}
void add(item a[],int h)
{
    cout<<"\n\t\t\t\t\tEnter the item name:";
    cin>>a[h].itemname;
    cout<<"\n\t\t\t\t\tEnter item price per unit:";
    cin>>a[h].price;
    cout<<"\n\t\t\t\t\tEnter the stock availability:";
    cin>>a[h].stock;
    cout<<"\n\t\t\t\t\t"<<a[h].itemname<<" is added successfully.\n";
}

void display(item b[],int j)          // function
{
    int i;
    for(i=0; i<j; i++)
    {
        cout<<"\n\t\t\t\t\t"<<b[i].itemname<<" " <<"Stock : "<<b[i].stock<<" " <<"Price per
unit:"<<b[i].price;
        cout<<"\t";
        if(i>0)
        {
            if(i%2==0)
                cout<<endl;
        }
    }
}

void customer ::buy(item o[])          // derived class (inheritance)
{
    int t,q,m=0,opt;
    cart n[99];
```



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```
{
    int i;

    cout<<left<<setw(10)<<"NAME"<<left<<setw(5)<<"QUANTITY"<<left<<setw(8)<<"Price
/unit"<<left<<setw(5)<<"AMOUNT"<<endl;
    for(i=0; i<=m; i++)
    {
        cout
            << left
            << setw(10)
            << d[i].iname
            << left
            << setw(5)
            << d[i].quant
            << left
            << setw(5)
            << d[i].rate
            << left
            << setw(5)
            << d[i].sum
            << endl;
    }
    cout<<left<<setw(50)<<"TOTAL"<<":"<<setw(10)<<bill<<endl;
    for(i=0; i<80; i++)
        cout<<"-";
    cout<<endl;
    cout<<left<<setw(50)<<"GRAND TOTAL"<<":"<<setw(10)<<(0.18*bill)+bill<<endl;
    for(i=0; i<80; i++)
        cout<<"-";
}
```

```
void chatbot()      // function
```

```
{
    int chatc,flag=0,f;
    char b;
    while(1)
    {
        cout<<"\n\t\t\t\t\tAnswer few basic questions and get help from our experts:";
        cout<<"\n\t\t\t\t\tYour problem is related to:\n"<<endl;
```

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```
cout<<"\t\t\t\t\t 1.Eyes\n\t\t\t\t\t 2.Nose\n\t\t\t\t\t 3.Stomach\n\t\t\t\t\t 4.Muscle\n\t\t\t\t\t 5.Skip anyway\n";
cout<<"\n\t\t\t\t\tEnter your choice:";
cin>>chatc;
switch(chatc)
{
case 1:
    cout<<"\t\t\t\t\tDo you have itching eyes (y/n):";
    cin>>b;
    if(b=='y')
        flag++;
    cout<<"\t\t\t\t\tDo you have red/pink colored eyes (y/n):";
    cin>>b;
    if(b=='y')
        flag++;
    cout<<"\t\t\t\t\tDo you get puss at eye corners in the morning (y/n):";
    cin>>b;
    if(b=='y')
        flag++;
    cout<<"\t\t\t\t\tHow long has this been going on:";
    cin>>f;
    if(flag>2)
    {
        cout<<"\n\t\t\t\t\tYou have symptoms of Allergic Conjunctivities.";
        cout<<"\n\t\t\t\t\tThese are the prescribed tablets by our doctors:";
        cout<<"\n\t\t\t\t\t 1.Fluorosine\n\t\t\t\t\t 2.Fluorometholone\n";
        return;
    }
    break;

case 2:
    flag=0;

    cout<<"\t\t\t\t\tDo you have running nose (y/n):";
    cin>>b;
    if(b=='y')
        flag++;
    cout<<"\t\t\t\t\tDou you feel difficulty in breathing (y/n):";
    cin>>b;
```

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```
        if(b=='y')
            flag++;
        cout<<"\t\t\t\t\tDo you have itching throat (y/n):";
        cin>>b;
        if(b=='y')
            flag++;
        cout<<"\t\t\t\t\tDo you have cough,fever,and headache (y/n):";
        cin>>b;
        if(b=='y')
            flag++;
        cout<<"\t\t\t\t\tHow long has this been going on:";
        cin>>f;
        if(b=='y')
            flag++;
        if(flag>=3)
        {
            cout<<"\n\t\t\t\t\tYou have symptoms of Viral Cold.";
            cout<<"\n\t\t\t\t\tThese are the prescribed tablets by our doctors:";
            cout<<"\n\t\t\t\t\t 1.Dolo 650\n\t\t\t\t\t 2.Sinarest\n\t\t\t\t\t 3.Vicks action
500\n";
            return;
        }
        else
        {
            cout<<"\n\t\t\t\t\tYou have mild symptoms of cold.";
            cout<<"\n\t\t\t\t\tThese are the prescribed tablets by our doctors:";
            cout<<"\n\t\t\t\t\t 1.Sinarest\n\t\t\t\t\t 2.Vicks action 500\n";
            return;
        }
        break;
    case 3 :
        flag=0;
        cout<<"\t\t\t\t\tDo you have burning pain in chest,bitter taste,frequent burping and
hiccups,dry cough (y/n):";
        cin>>b;
        if(b=='y')
        {
            flag++;
            cout<<"\n\t\t\t\t\tYou have symptoms of Acidity.";
            cout<<"\n\t\t\t\t\tThese are the prescribed medicine by our doctors:";
```



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```
cout<<"\n\t\t\t\t\t1.Digene\n\t\t\t\t\t2.Eno\n";
return;
}
if(b=='n')
{
    cout<<"\n\t\t\t\t\tDo you have cramps in stomach (y/n):";
    cin>>b;
    if(b=='y')
    {
        flag++;
        cout<<"\n\t\t\t\t\tThese are the prescribed tablets by our doctors:";
        cout<<"\n\t\t\t\t\t1.Buscopan\n\t\t\t\t\t2.Buscogast\n";
        return;
    }
    if(b=='n')
    {
        cout<<"\t\t\t\t\tDo you have dysentery (y/n):";
        cin>>b;
        if(b=='y')
        {
            flag++;
            cout<<"\n\t\t\t\t\tThese are the prescribed tablets by our doctors:\n";
            cout<<"\n\t\t\t\t\t1.Diasyn\n\t\t\t\t\t2.Norflox\n";
            return;
        }
    }
}
break;
case 4:
    flag=0;
    cout<<"\t\t\t\t\tDo you have muscle ache (y/n):";
    cin>>b;
    if(b=='y')
    {
        flag++;
        cout<<"\n\t\t\t\t\tThese are the prescribed tablets by our doctors:\n";
        cout<<"\n\t\t\t\t\t1.Crocin\n\t\t\t\t\t2.Cramphil\n";
```

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```
        return;

    }

    cout<<"\t\t\t\t\tDo you have muscle catch (y/n).:";
    cin>>b;
    if(b=='y')
    {
        flag++;
        cout<<"\n\t\t\t\t\tThese are the prescribed tablets by our doctors:\n";
        cout<<"\n\t\t\t\t\t 1.Nexneuron\n\t\t\t\t\t 2.Catch D3 500\n";
        return;

    }

    case 5:
        return;
        break;
    default:
        cout<<"\n\t\t\t\t\tInvalid choice !!!\n";
    }

}

}

int main()
{

    item t[999];
    customer c[9999];
    int choice,opt,sel,k=0,u,count;           // v
    string pin,checkpin;                     // system fuction for background colour
    cout<<"\n\t";
    for(int r=0; r<190; r++)
```

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```

    cout<<"*";
cout<<"\n\n\t\t\t\t\t\t\t\tCG Pharmaceutical Management System\n\n\t";
for(int r=0; r<190; r++)
    cout<<"*";
cout<<"\n\n";
chatbot();
while(1)
{
here:
    cout<<"\n\t\t\t\t\t\t\t\t1.Admin\t\t2.Customer\t\t3.Chatbot\t\t4.Exit\n";
    cout<<"\t\t\t\t\t\t\tEnter your choice:";
    cin>>choice;
    switch (choice)
    {
        case 1:
            if(count==0)
            {
                cout<<"\n\t\t\t\t\t\t\tAdmin SignUp\n";
                admin a;
                count++;
            }
            else
            {
                cout<<"\n\t\t\t\t\t\t\tAdmin Login:";

jump:
                cout<<"\n\t\t\t\t\t\t\tEnter your pin:";
                cin>>pin;
                ifstream fp;
                fp.open("admin.txt");

                while ( !fp.eof() )
                {

                    fp>>checkpin;
                }

                if( pin==checkpin)
                {
                    cout<<"\n\t\t\t\t\t\t\tLogged in Successfully\n";
                    while(1)

```

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[illegible]

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```
{

    cout<<"\n\t\t\t\t\tInvalid pin !!!\n";
    goto jump;
}
}
break;
case 2:
newcust:
    c[k].getname();
    c[k].getdetails();
    while(1)
    {
        cout<<"\n\t\t\t\t\t1.Display\t\t2.Buy\t\t3.Exit\t\t4.MainMenu\n";
        cout<<"\t\t\t\t\tEnter your choice:";
        cin>>opt;
        switch (opt)
        {
            case 1:
                display(t,j);

                break;
            case 2:
                c[k].buy(t);
                k++;
                cout<<"\n\t\t\t\t\tThanks for shopping !!!!\n";
                break;
            case 3:
                goto newcust;
                break;
            case 4:
                goto here;
                break;

            default:
                cout<<"\n\t\t\t\t\tInvalid choice !!!\n";
        }
    }
}
case 3:
    chatbot();
```

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```
        break;
    case 4:
        exit(0);

    default:
        cout<<"\n\t\t\t\t\tInvalid choice !!!\n";

    }

}

return 0;
}
```