Name   : Nithish.G

REG no   : 19BCS0012

Course   : OBJECT ORIENTED PRORAMMING

Course code   : CSC2002

Assignment   : REVIEW-3

BILLING PROJECT

```cpp
#include <cstdlib>

#include<iostream>

using namespace std;

#include<fstream>

#include<iomanip>

#include<conio.h>

float bill_amount;

int i=0;

int c;

int coun=0;

int s=26;

  string p_n[100];

  float q[100];

  float p[100];

  float t_p[100];

  string date;

  float m[100];

   int k;


class market

{

public:
```

```cpp
    float quantity;

    float price;

    float total_price;

    void get_data();

    void display_data();

    void store_data();

    void search_data();

    void admin();

};

void market::admin()

{

string a[100]; a[1]="apple";a[2]="mango";a[3]="banana";a[4]="cherry";a[5]="watermelon";

a[6]="strawberry";a[7]="jackfruit";a[8]="lemon";a[9]="dragonfruit";a[10]="starfruit";

a[26]="graps";a[11]="orange";a[12]="blueberry";a[13]="cantalope";a[14]="kumquat";

a[15]="kiwifruit";a[16]="pineapple";a[17]="carambola";a[18]="tangerine";a[19]="jamaican";a[20]="
mulberry";

a[21]="papaya";a[22]="pear";a[23]="durian";a[24]="fig";a[25]="peach";    int l;

m[1]=120;m[2]=80;m[3]=70;m[4]=75;m[5]=40;m[6]=90;m[7]=160;m[8]=30;m[9]=130;m[10]=160;m[
11]=155;m[12]=164;

m[13]=97;m[14]=147;m[15]=167;m[16]=190;m[17]=143;m[18]=220;m[19]=232;m[20]=192;m[21]=2
29;m[22]=176;m[23]=157;

m[24]=198;m[25]=178;m[26]=194;

    cout<<"press 1 to edit coast of fruits"<<endl<<"press 2 for add extra items"<<endl;

    cin>>l;


    if(l==1)

    {

        do{

            cout<<"enter the fruit name"<<endl;
```

```cpp
            string fn;

            cin>>fn;

            cout<<"enter the coast "<<endl;

            float cs;

            cin>>cs;

            for(i=0;i<100;i++)

            {

                        if(a[i]==fn)

                        {

                                    m[i]=cs;

                        }

            }

            cout<<"press 1 to continue or press 0 to stop"<<endl;

            cin>>c;

            }while(c!=0);

            }

            else if(l==2)

            {

                i=26; do{

                cout<<"enter the new fruit name"<<endl;

                cin>>a[i];

                cout<<"enter the coast for a kg"<<endl;

                cin>>m[i];

                s++;

                cout<<"press 1 to continue or 0 to stop"<<endl;

                cin>>c;
```

```cpp
                i++;

                }while(c!=0);

        }

}


void market::get_data()

{

        string product_name;

string a[100];

a[1]="apple";a[2]="mango";a[3]="banana";a[4]="cherry";a[5]="watermelon";

a[6]="strawberry";a[7]="jackfruit";a[8]="lemon";a[9]="dragonfruit";a[10]="starfruit";

a[26]="graps";a[11]="orange";a[12]="blueberry";a[13]="cantalope";a[14]="kumquat";

a[15]="kiwifruit";a[16]="pineapple";a[17]="carambola";a[18]="tangerine";a[19]="jamaican";a[20]="mulberry";

a[21]="papaya";a[22]="pear";a[23]="durian";a[24]="fig";a[25]="peach";

m[1]=120;m[2]=80;m[3]=70;m[4]=75;m[5]=40;m[6]=90;m[7]=160;m[8]=30;m[9]=130;m[10]=160;m[11]=155;m[12]=164;

m[13]=97;m[14]=147;m[15]=167;m[16]=190;m[17]=143;m[18]=220;m[19]=232;m[20]=192;m[21]=229;m[22]=176;m[23]=157;

m[24]=198;m[25]=178;m[26]=194;

cout<<endl<<endl<<"\t\tavaliable probucts"<<endl;

for(int d=0;d<=s;d++)

{

    cout<<"\t"<<a[d]<<endl;

for(int j=d+1;j<=d+1;j++)

{

    cout<<"\t\t\t"<<a[j]<<endl;

}

d++;
```

```cpp
    }


        cout<<"product name          :";

        cin>>product_name;

        p_n[i]=product_name;

        cout<<endl;

        cout<<"quantity in kg            :";

        cin>>quantity;

        q[i]=quantity;

        for(int n=1;n<100;n++)

        {

        if(product_name==a[n])

        {

        price=m[n];

        p[n]=price;

        }

        }

        cout<<"total price             :";

        total_price=quantity*price;

        t_p[i]=total_price;

        cout<<total_price<<endl<<endl;

        bill_amount+=total_price;



    }

    void market::store_data()

    {
```

```cpp
    string file_name;

    file_name=date;


    ofstream f;


    f.open(file_name.c_str(),ios::out|ios::app);


    if (f.is_open())


    {   f<<setw(35)<<"bill records"<<endl<<endl;

        f<<" date : "<<date<<endl;

        f<<"==================="<<endl<<endl;

        f<<"product name        price      quantity        total price"<<endl;

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

        {


        f<<p_n[k]<<endl;


        f<<setw(28)<<setw(14)<<q[k]<<setw(25)<<t_p[k]<<endl;

f<<"======================================================================"<<endl<<en
dl;

        }
    f<<setw(22)<<coun<<" items purshed"<<endl<<endl<<setw(38)<<"total bil amout =
"<<bill_amount;

        f.close();

        ifstream inFile;


        string stuff;
```

```cpp
    inFile.open(file_name.c_str());


    if (inFile.is_open())


    {


      while (!inFile.eof())

    {

        inFile >> stuff;


        cout << stuff <<endl;

    }


      inFile.close();


    } else


    {


      cout << "Could not open the file for reading" <<endl;

    }
} else

{

  cout << "Could not open file for output!"<<endl;
```

```cpp
    }

    system("CLS");

}

void market::search_data()

{

 fstream file;

    string line, t, q, filename;

     cin>>filename;

    file.open(filename.c_str());

    while(file.good())

    {

                getline(file,line);

                cout<< line<<endl;

    }

}

void market::display_data()

{

  cout<<" date : "<<date<<endl;

      cout<<"===================="<<endl<<endl;

      cout<<"product name          price       quantity          total price"<<endl;

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

      {


      cout<<p_n[k]<<endl;

     cout<<setw(28)<<setw(14)<<q[k]<<setw(25)<<t_p[k]<<endl;
cout<<"================================================================="<<endl<
<endl;

        }
```

```cpp
    cout<<setw(22)<<coun<<" items purshed"<<endl<<endl<<setw(38)<<"total bil amout =
"<<bill_amount;

}

int main()

{

    market b[200];

    int g;

    FIRST:

    ONE:

        system("CLS");

    THREE:

bill_amount=0;

cout<<setw(25)<<"enter your choice"<<endl;

cout<<endl<<setw(20)<<"    1. billing "<<endl<<endl<<setw(20)<<"        2. search record "<<endl;

cout<<endl<<setw(18)<<" 3. admin "<<endl;

c=0;

cin>>c;

if(c==1)

 {


        cout<<setw(30)<<"billing"<<endl<<endl;

        cout<<" enter the date :";

        cin>>date;

        ZERO:

        //cout<<i+1<<".";

        b[i].get_data();

        i++;
```

```cpp
    cout<<endl<<"\n press 1 for continue and  2 for stop  :  ";

    coun++;

    int c1;

    cin>>c1;

    cout<<endl<<endl;

    int j=0;


    if(c1==1)

    {

     goto ZERO;

    }

    else

    if(c1==2)

    {

     cout<<coun<<"items purchased ";

     cout<<"total bill amount"<<bill_amount;


     b[j].store_data();

     b[j].display_data();

     j++;

     coun=0;

     i=0;

    }

    TWO:

cout<<endl<<"press 1 to go back"<<endl;


  cin>>g;
```

```cpp
        if(g==1)

        {

            goto ONE;

        }

        else

        {

          cout<<"invalid input";

          goto TWO;

        }

    }


    else

    if(c==2)

    {

        cout<<"     enter the date to see to the record ";

        b[i].search_data();

        i++;

        cout<<endl<<" press 1 to go back";

        cin>>g;

        if(g==1)

        {

            goto THREE;

        }

        else

        {

         cout<<"invalid input";

        }
```

```
     }
  else if(c==3)
  {
    b[i].admin();
    goto FIRST;
  }
  else{
     cout<<"invalid input";
    }



    return 0;
}
```

OUT PUT

```
        enter your choice
        ********************
        1.  billing

        2.  search record

        3.  admin
************************************************************************************
  1
                        billing
 enter the date : 07.07.2020


************************************************************************************
                avaliable probucts
                            apple
        mango
                            banana
        cherry
                            watermelon
        strawberry
                            jackfruit
        lemon
                            dragonfruit
        starfruit
                            orange
        blueberry
                            cantalope
        kumquat
                            kiwifruit
        pineapple
                            carambola
        tangerine
                            jamaican
        mulberry
                            papaya
        pear
                            durian
        fig
                            peach
        graps
product name                    :fig

quantity in kg                  :1.4
total price                     :277.2
************************************************************************************

 press 1 for continue and  2 for stop  :
************************************************************************************
  1
```

```
 press 1 for continue and  2 for stop  :
************************************************************************************
  1



************************************************************************************
                avaliable probucts
                            apple
        mango
                            banana
        cherry
                            watermelon
        strawberry
                            jackfruit
        lemon
                            dragonfruit
        starfruit
                            orange
        blueberry
                            cantalope
        kumquat
                            kiwifruit
        pineapple
                            carambola
        tangerine
                            jamaican
        mulberry
                            papaya
        pear
                            durian
        fig
                            peach
        graps
product name                    :graps

quantity in kg                  :0.75
total price                     :145.5
************************************************************************************

 press 1 for continue and  2 for stop  :
************************************************************************************

  2_
```

```
 C:\Users\USER\Desktop\oops da\Nithish.g_19BCS0012.exe

 date : 07.07.2020
====================

product name              price        quantity           total price
fig
                           0            1.4                  277.2
================================================================================

graps
                           0            0.75                 145.5
================================================================================

                  2 items purshed

                  total bil amout =   422.7
********************************************************************************

press 1 to go back
********************************************************************************

 1_
```

```
 C:\Users\USER\Desktop\oops da\Nithish.g_19BCS0012.exe
           enter your choice
        *******************
        1. billing
        2. search record
        3. admin
********************************************************************************
  2
      enter the date to see to the record

        07.07.2020
                    bill records
 date : 07.07.2020
====================
product name              price        quantity           total price
fig
                           0            1.4                  277.2
----------------------------------------------------------------
graps
                           0            0.75                 145.5
----------------------------------------------------------------
                  2 items purshed
                  total bil amout =   422.7
 press 1 to go back    1_
```

```
                  total bil amout =   422.7

 press 1 to go back    1
           enter your choice
        *******************

        1. billing

        2. search record

        3. admin
*******************************************************************************

 3
press 1 to edit coast of fruits
press 2 for add extra items

1
enter the fruit name

fig
enter the coast
50
press 1 to continue or press 0 to stop

1
enter the fruit name

graps
enter the coast

70
press 1 to continue or press 0 to stop
0_
```