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**REG no : 19BCS0012** 

Course : OBJECT ORIENTED PRORAMMING

Course code : CSC2002

Assignment : PROPLEM SOLVING

## Prepare the Bill for the customers in a Departmental Store.

## **Source code:**

#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:
       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]="blue_pen";a[2]="A4sheet";a[3]="shot_size_scale";a[4]="red_pen";a[5]="eraeser";
a[6]="long_size_scale";a[7]="nadraja_pencil";a[8]="a3sheet";a[9]="ball_point_pen";a[10]="
blue ink";
a[26]="reb_ink";a[11]="green_ink";a[12]="black_ink";a[13]="100pages_note";a[14]="200pages
note";
a[15]="gum";a[16]="chart";a[17]="sketch";a[18]="paint_box";a[19]="geomentry_box";a[20]="glitter
ing pen";
a[21]="sharpner";a[22]="thread";a[23]="shabluar";a[24]="pin";a[25]="paper_holder";
m[1] = 12; \\ m[2] = 8; \\ m[3] = 7; \\ m[4] = 7; \\ m[5] = 4; \\ m[6] = 9; \\ m[7] = 16; \\ m[8] = 3; \\ m[9] = 13; \\ m[10] = 16; \\ m[11] = 15; \\ m[12] = 16; \\ m[12] = 16; \\ m[13] = 16; \\ m
m[13] = 9; m[14] = 14; m[15] = 16; m[16] = 19; m[17] = 14; m[18] = 22; m[19] = 23; m[20] = 19; m[21] = 22; m[22] = 11; m[21] = 12; m[22] = 11; m[22] = 12; m[23] = 12; m[23]
7;m[23]=15;
m[24]=19;m[25]=17;m[26]=19; int l;
            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;
       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;</pre>
       cin>>c;
       }while(c!=0);
       }
      else if(I==2)
        i=26; do{
         cout<<"enter the new fruit name"<<endl;
         cout<<"enter the coast for a kg"<<endl;
         cin>>m[i];
         S++;
         cout<<"press 1 to continue or 0 to stop"<<endl;
         cin>>c;
         i++;
         }while(c!=0);
      }
void market::get_data()
       string product_name;
string a[100];
a[1]="blue_pen";a[2]="A4sheet";a[3]="shot_size_scale";a[4]="red_pen";a[5]="eraeser";
a[6]="long_size_scale";a[7]="nadraja_pencil";a[8]="a3sheet";a[9]="ball_point_pen";a[10]="
blue_ink";
a[26]="reb_ink";a[11]="green_ink";a[12]="black_ink";a[13]="100pages_note";a[14]="200pages
note";
```

}

{

```
a[15]="gum";a[16]="chart";a[17]="sketch";a[18]="paint_box";a[19]="geomentry_box";a[20]="glitter
ing_pen";
a[21]="sharpner";a[22]="thread";a[23]="shabluar";a[24]="pin";a[25]="paper_holder";
m[1] = 12; m[2] = 8; m[3] = 7; m[4] = 7; m[5] = 4; m[6] = 9; m[7] = 16; m[8] = 3; m[9] = 13; m[10] = 16; m[11] = 15; m[12] = 16; m[13] =
]=16;
m[13] = 9; m[14] = 14; m[15] = 16; m[16] = 19; m[17] = 14; m[18] = 22; m[19] = 23; m[20] = 19; m[21] = 22; m[22] = 11; m[18] = 12; m[18]
7;m[23]=15;
m[24]=19;m[25]=17;m[26]=19;
cout<<endl<<"\t\tavaliable probucts"<<endl;</pre>
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++;
}
                           cout<<"pre>roduct name
                            cin>>product_name;
                            p_n[i]=product_name;
                            cout<<endl;
                             cout<<"quantity
                                                                                                                                                                                       :";
                            cin>>quantity;
                            q[i]=quantity;
                           for(int n=1;n<100;n++)
                           if(product_name==a[n])
                           price=m[n];
                           p[i]=price;
                           }
                           cout<<"total price
                                                                                                                                                                                           :";
                           total_price=quantity*price;
                           t_p[i]=total_price;
                            cout<<total_price<<endl<<endl;</pre>
                            bill_amount+=total_price;
void market::store_data()
   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<<"pre>product name
                                                                                                                                                                                                              total price"<<endl;
                                                                                                                  price
                                                                                                                                                      quantity
                 for(k=0;k<i;k++)
                 f << p_n[k] << endl;
                 f < setw(28) < p[k] < setw(14) < q[k] < setw(25) < t_p[k] 
dl;
        f<<setw(22)<<coun<<" items purshed"<<endl<<setw(38)<<"total bil amout =
"<<bill_amount;
                 f.close();
                 ifstream inFile;
               string stuff;
                 inFile.open(file_name.c_str());
                 if (inFile.is_open())
                 {
                         while (!inFile.eof())
                    {
```

```
inFile >> stuff;
         cout << stuff <<endl;</pre>
      }
       inFile.close();
    } else
    {
       cout << "Could not open the file for reading" <<endl;</pre>
    }
  } else
  {
    cout << "Could not open file for output!"<<endl;</pre>
  }
  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;</pre>
   cout<<"==========="<<endl<<endl;
   cout<<"product name
                                    quantity
                                                 total price"<<endl;
                            price
   for(k=0;k<i;k++)
   cout<<p_n[k]<<endl;</pre>
   cout << setw(28) << p[k] << setw(14) << q[k] << setw(25) << t_p[k] << endl;
<endl;
 cout<<setw(22)<<coun<<" items purshed"<<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;</pre>
cout<<endl<<setw(20)<<" 1. billing "<<endl<<setw(20)<<" 2. search record "<<endl;
cout<<endl<<setw(18)<<" 3. admin "<<endl;
c=0;
cin>>c;
if(c==1)
```

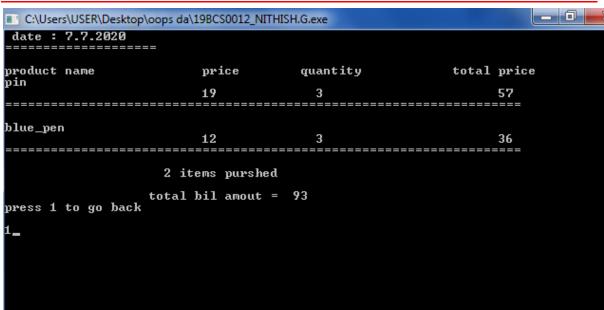
```
{
   cout<<setw(30)<<"billing"<<endl<<endl;
   cout<<" enter the date :";
   cin>>date;
    ZERO:
    //cout<<i+1<<".";
    b[i].get_data();
    i++;
    cout<<endl<<"\n press 1 for continue and 2 for stop : ";</pre>
    coun++;
    int c1;
    cin>>c1;
    cout<<endl<<endl;
    int j=0;
   if(c1==1)
     goto ZERO;
    }
    else
    if(c1==2)
    {
    cout<<coun<<"items purchased ";</pre>
    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;
  if(g==1)
      goto ONE;
  }
  else
  {
    cout<<"invalid input";</pre>
    goto TWO;
```

```
}
}
else
if(c==2)
                 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";</pre>
 }
 else if(c==3)
  b[i].admin();
  goto FIRST;
 }
else{
   cout<<"invalid input";</pre>
  }
  return 0;
}
```

## **Out put**

## \_ 0 C:\Users\USER\Desktop\oops da\19BCS0012\_NITHISH.G.exe enter your choice 1. billing 2. search record 3. admin billing enter the date :7.7.2020 avaliable probucts blue\_pen A4sheet shot\_size\_scale red\_pen eraeser long\_size\_scale nadraja\_pencil a3sheet ball\_point\_pen blue\_ink green\_ink black\_ink 100pages\_note 200 pages note gum chart sketch paint\_box geomentry\_box glittering\_pen sharpner thread shabluar pin paper\_holder reb\_ink product name :pin quantity :3 total price :57 press 1 for continue and 2 for stop : 1

```
press 1 for continue and 2 for stop : 1
                avaliable probucts
                         blue_pen
        A4sheet
                         shot_size_scale
        red_pen
                         eraeser
        long_size_scale
                         nadraja_pencil
        a3sheet
                         ball_point_pen
         blue_ink
                         green_ink
        black_ink
                         100pages_note
        200pages note
                         gum
        chart
                         sketch
        paint_box
                         geomentry_box
        glittering_pen
                         sharpner
        thread
                         shabluar
        pin
                         paper_holder
        reb_ink
product name
                           :blue_pen
                                    :3
:36
quantity
total price
press 1 for continue and 2 for stop :
                                            2
```



```
C:\Users\USER\Desktop\oops da\19BCS0012_NITHISH.G.exe
     enter your choice
      1. billing
      2. search record
      3. admin
    enter the date to see to the record 7.7.2020 bill records
date : 7.7.2020
-----
                 price
                           quantity
                                        total price
product name
19 3 57
blue_pen
                 12
                            3
                   2 items purshed
             total bil amout = 93
press 1 to go back_
                       total bil amout =
press 1 to go back 1
enter your choice
          1. billing
           2. search record
          3. admin
press 1 to edit coast of fruits press 2 for add extra items
enter the fruit name
pin
enter the coast
20
press 1 to continue or press 0 to stop
```