C++ PRACTICAL EXAM

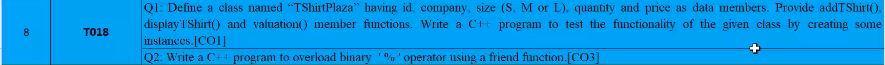
**NAME** : MIHIR RAJESH PANCHAL

**SAP ID** : 57498200018

**ROLL NO** : T018

**SEM** : II (INFORMATION TECHNOLOGY)

**SUBJECT** : PROGRAMMING IN C++



Source Code :

//Q1.Define a class named "TShirtPlaza" having id,company size(S,M,L),quantity,price as data members.Provide addTShirt(); displayTShirt(); and valuation(); member function.

//Write a C++ Program to test the functionality of the given class by creating some instances

#include<iostream>

using namespace std;

class TShirtPlaza

{

int id,quantity;

float price,cprice;

char company[50],tshirtsize[1];

public:

void addTShirt();

void displayTShirt();

void valuation();

};

void TShirtPlaza::addTShirt()

{

cout<<"\nEnter TShirt Company Name : ";

cin>>company;

cout<<"Enter TShirt ID No : ";

cin>>id;

cout<<"Enter TShirt Size (S,M,L): ";

cin>>tshirtsize;

cout<<"Enter Quantity Of TShirts : ";

cin>>quantity;

cout<<"Enter Price of 1 TShirt : ";

cin>>price;

}

void TShirtPlaza::displayTShirt()

{

cout<<"\nTShirt Company Name : "<<company<<endl;;

cout<<"TShirt ID No : "<<id<<endl;

cout<<"TShirt Size (S,M,L): "<<tshirtsize<<endl;

cout<<"Quantity Of TShirts : "<<quantity<<endl;

cout<<"Price of 1 TShirt : "<<price<<endl;

}

void TShirtPlaza::valuation()

{

cprice=price\*quantity;

cout<<"\nThe Total Cost Price on Buying "<<quantity<<" "<<tshirtsize<<" sized TShirt from Company "<<company<<" is : "<<cprice<<endl;

}

int main()

{

int no,i;

cout<<"\t\t\t\tTShirt Plaza"<<endl;

cout<<"Enter The Number(Variety) of Tshirt you want to buy : ";

cin>>no;

for(i=0;i<no;i++)

{

TShirtPlaza t[100];

t[i].addTShirt();

t[i].displayTShirt();

t[i].valuation();

}

}

Output :

TShirt Plaza

Enter The Number(Variety) of Tshirt you want to buy : 2

Enter TShirt Company Name : Macho

Enter TShirt ID No : 1234

Enter TShirt Size (S,M,L): S

Enter Quantity Of TShirts : 40

Enter Price of 1 TShirt : 100.7

TShirt Company Name : Macho

TShirt ID No : 1234

TShirt Size (S,M,L): S

Quantity Of TShirts : 40

Price of 1 TShirt : 100.7

The Total Cost Price on Buying 40 S sized TShirt from Company Macho is : 4028

Enter TShirt Company Name : Gucci

Enter TShirt ID No : 234

Enter TShirt Size (S,M,L): L

Enter Quantity Of TShirts : 20

Enter Price of 1 TShirt : 200.76

TShirt Company Name : Gucci

TShirt ID No : 234

TShirt Size (S,M,L): L

Quantity Of TShirts : 20

Price of 1 TShirt : 200.76

The Total Cost Price on Buying 20 L sized TShirt from Company Gucci is : 4015.2

Process returned 0 (0x0) execution time : 58.398 s

Press any key to continue.

Source Code :

//Q2.Write A C++ Program to overload Binary '%' operator using friend function

#include<iostream>

using namespace std;

class Modulus

{

private:

int x;

public:

void input();

void output();

friend Modulus operator %(Modulus,Modulus);

};

void Modulus::input()

{

cout<<"Enter The Number: ";

cin>>x;

}

void Modulus::output()

{

cout<<"Value of Number : "<<x<<endl;

}

Modulus operator %(Modulus a,Modulus b)

{

Modulus c;

c.x=a.x%b.x;

}

int main()

{

Modulus a,b;

a.input();

b.input();

cout<<"Value of Number in Object 1"<<endl;

a.output();

cout<<"Value of Number in Object 2"<<endl;

b.output();

Modulus d=a%b;

cout<<"Value of Number after calling operator overloading friend function % : "<<endl;

d.output();

}

Output :

Enter The Number: 5

Enter The Number: 2

Value of Number in Object 1

Enter The Number: 5

Value of Number in Object 2

Enter The Number: 2

Value of Number after calling operator overloading friend function % : 1