VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 7_COD_Medium_Function Overloading

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

You are creating a shopping cart for an e-commerce website. Implement overloaded functions called calculateTotalPrice that can calculate the total price of different types of items, such as a single item, multiple items, or items with discounts. Each overloaded function should take the required parameters and return the calculated total price.

Calculate the total price for a single item without quantity or discounts.Calculate the total price for multiple items in quantity without any discounts.Calculate the total price for multiple items with quantity and a discount percentage.

Answer

```
// You are using GCC
```

```
#include<iostream>
#include<iomanip>
using namespace std;

class cart{
   public:
      void calculateTotalPrice(double a)
      {
         cout<<fixed<<setprecision(2)<<a<<endl;
      }
      void calculateTotalPrice(double a,double b){
         cout<<fixed<<setprecision(2)<<a*b<<endl;
      }
      void calculateTotalPrice(double a,double b, double c){
         cout<<fixed<<setprecision(2)<<(a*b*(100-c))/100.0<<endl;
      }
};

int main(){
   cart obj;
   while(1){
      int a;
      double b;
      int c;
      int d;
      cin>>a;
      if(a==1){
         cin>>b;
         obj.calculateTotalPrice(b);
      }
      else if(a==2){
         cin>>b>>c;
         obj.calculateTotalPrice(b,c);
      }
      else if(a==3){
         cin>>b>>c>>d;
         obj.calculateTotalPrice(b,c,d);
      }
      else if(a==4){
         break;
      }
      else{
```

```
            cout<<"Invalid choice";
        }
    }
    return 0;
}
```

Status : Correct **Marks : 10/10**