**Module 4 Assignment – Online Shopping Cart**

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**Module 4 Assignment – Online Shopping Cart**

The objective of this assignment is to build functionality for an Online Shopping Cart. We have to create ItemToPurchase class. This class should have 3 three attrubutes ( item\_name, item\_price and item\_quantity), default constructor and a method to print item cost.

The program will prompt user for two items and instantiate two objects of ItemToPurchase class.

Finally it should add cost of these two items and output the total cost.

Let us outline this into step by step solution in Python programming language.

Step 1 – Define the ItemToPurchase class

The first step is to define the class ItemToPurchase as as specified. A default constructor is expected in this class to initlialize the three attributes to a default value. After this use the ItemToPurchase class in the main part of the code to interact with the user, creating item objects, and calculating the total cost

A screen shot of a computer code

Description automatically generated

The class definition includes the required attribute –

Item\_name

Item\_price

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Item\_quantity

A default constructor that initializes these attributes. The print\_item\_cost method calculates the total cost for an item and prints it in the specified format.

Step 2 – Obtain items details from user.

Im the main section of program prompt user or details about two items and use these details to create two ItemToPurchase objects.

A screen shot of a computer program

Description automatically generated

This section of the program completes the following steps of the requirements

Ask the user for the name, price and quanity of two items

Creates two objects of “ItemToPurchase” class with details provided by user

Calls the print\_item\_cost method for each object to display the cost of each item.

Calculates and displays the total cost of both items combined.

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A screen shot of a computer program

Description automatically generated

This section prints the total cost

Here is the screen shot of my program execution.

A screen shot of a computer

Description automatically generated

Github Link of my assignment code

<https://github.com/shashithakurcsu/CSUProjects/blob/main/Module4/Assignments/shopping_cart.py>

**References**

1. <https://www.geeksforgeeks.org/constructors-in-python/>