Module 4 Portfolio Project

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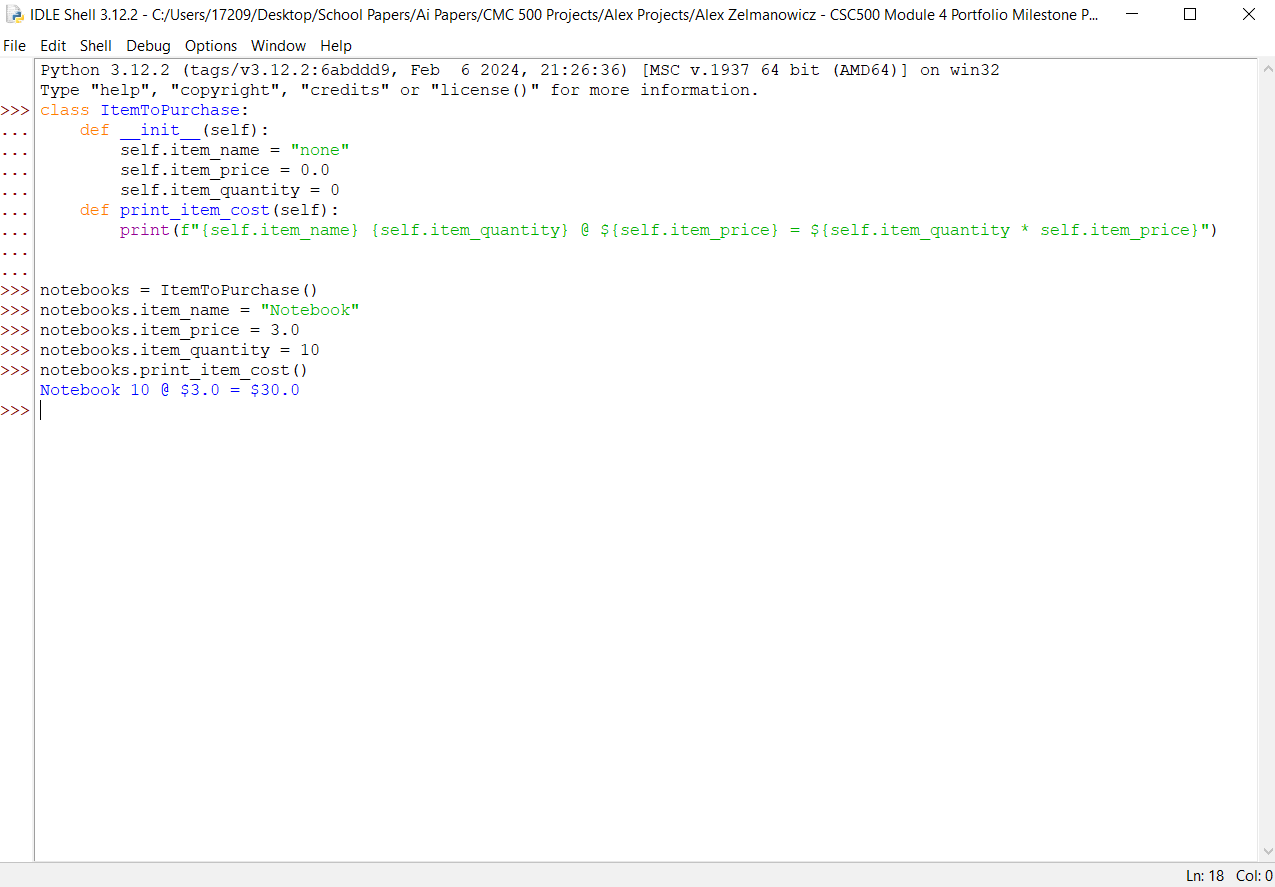
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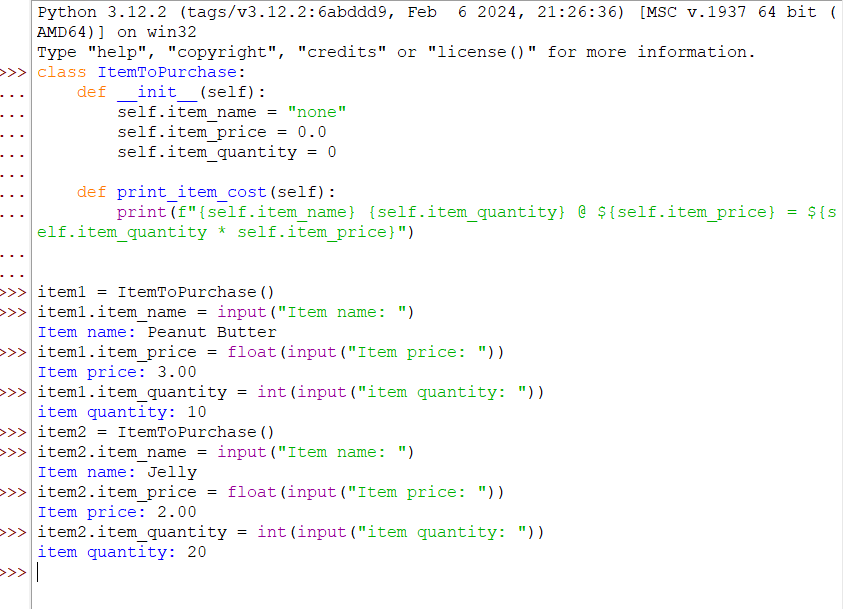
CSC 500

10 March 2024

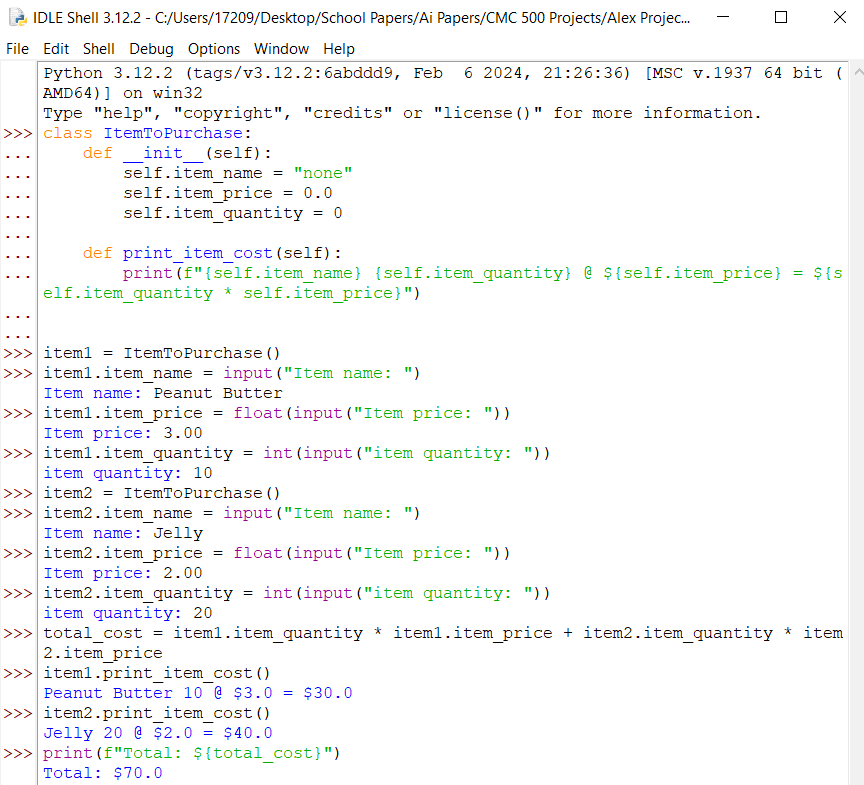
**Step 1:**

****

**Step 2:**



**Step 3:**



**Step 1 Source Code:**

>>> class ItemToPurchase:

... def \_\_init\_\_(self):

... self.item\_name = "none"

... self.item\_price = 0.0

... self.item\_quantity = 0

... def print\_item\_cost(self):

... print(f"{self.item\_name} {self.item\_quantity} @ ${self.item\_price} = ${self.item\_quantity \* self.item\_price}")

...

...

>>> notebooks = ItemToPurchase()

>>> notebooks.item\_name = "Notebook"

>>> notebooks.item\_price = 3.0

>>> notebooks.item\_quantity = 10

>>> notebooks.print\_item\_cost()

Notebook 10 @ $3.0 = $30.0 **Step 2 Source Code:**

>>> class ItemToPurchase:

... def \_\_init\_\_(self):

... self.item\_name = "none"

... self.item\_price = 0.0

... self.item\_quantity = 0

...

... def print\_item\_cost(self):

... print(f"{self.item\_name} {self.item\_quantity} @ ${self.item\_price} = ${self.item\_quantity \* self.item\_price}")

...

...

>>> item1 = ItemToPurchase()

>>> item1.item\_name = input("Item name: ")

Item name: Peanut Butter

>>> item1.item\_price = float(input("Item price: "))

Item price: 3.00

>>> item1.item\_quantity = int(input("item quantity: "))

item quantity: 10

>>> item2 = ItemToPurchase()

>>> item2.item\_name = input("Item name: ")

Item name: Jelly

>>> item2.item\_price = float(input("Item price: "))

Item price: 2.00

>>> item2.item\_quantity = int(input("item quantity: "))

item quantity: 20

**Step 3 Source Code:**

>>> class ItemToPurchase:

... def \_\_init\_\_(self):

... self.item\_name = "none"

... self.item\_price = 0.0

... self.item\_quantity = 0

...

... def print\_item\_cost(self):

... print(f"{self.item\_name} {self.item\_quantity} @ ${self.item\_price} = ${self.item\_quantity \* self.item\_price}")

...

...

>>> item1 = ItemToPurchase()

>>> item1.item\_name = input("Item name: ")

Item name: Peanut Butter

>>> item1.item\_price = float(input("Item price: "))

Item price: 3.00

>>> item1.item\_quantity = int(input("item quantity: "))

item quantity: 10

>>> item2 = ItemToPurchase()

>>> item2.item\_name = input("Item name: ")

Item name: Jelly

>>> item2.item\_price = float(input("Item price: "))

Item price: 2.00

>>> item2.item\_quantity = int(input("item quantity: "))

item quantity: 20

>>> total\_cost = item1.item\_quantity \* item1.item\_price + item2.item\_quantity \* item2.item\_price

>>> item1.print\_item\_cost()

Peanut Butter 10 @ $3.0 = $30.0

>>> item2.print\_item\_cost()

Jelly 20 @ $2.0 = $40.0

>>> print(f"Total: ${total\_cost}")

Total: $70.0

**Pseudocode:**1. Start.

2. Make a class called ItemToPurchase.

3. Input item\_name as "none", item\_price as 0.0, and item\_quantity as 0.

4. Make a method named print\_item\_cost.

5. Make an instance of ItemToPurchase called item1.

6. Ask the user for the name, price, and quantity of item1.

7. Make a second instance of ItemToPurchase called item2.

8. Ask the user for the name, price, and quantity of item2.

9. Calculate the cost of item 1 by its quantity multiplied by price.

10. Calculate the cost of item 1 by its quantity multiplied by price.

11. Print the details for item 1 and item 2.

12. find the total cost by adding both total prices of item 1 and item 2 by all its quantity.

13. print the total cost of all items.

14. End.

**Git Repository**: https://github.com/AlexCSUGlobal/CSC500