# module4

December 1, 2025

**Assignment** "'Online Shopping Cart Step 1: Build the ItemToPurchase class with the following specifications:

Attributes item_name (string) item_price (float) item_quantity (int) Default constructor Initializes item's name = "none", item's price = 0, item's quantity = 0 Method print_item_cost() Example of print_item_cost() output: Bottled Water 10 @ $1 = $10

Step 2: In the main section of your code, prompt the user for two items and create two objects of the ItemToPurchase class.

Example:

Item 1

Enter the item name:

Chocolate Chips

Enter the item price:

3

Enter the item quantity:

1

Item 2

Enter the item name:

Bottled Water

Enter the item price:

1

Enter the item quantity:

10

Step 3: Add the costs of the two items together and output the total cost.

Example:

TOTAL COST

Chocolate Chips 1 @ $3 = $3

Bottled Water 10 @ $1 = $10

Total: $13

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**Git Repository** https://github.com/izzy64/CSC500/blob/main/Module4

**CODE**

[15]:
```
# Part 1

class ItemToPurchase:
    def __init__(self, item_name="none", item_price=0, item_quantity=0):
        """Default constructor."""
        self.item_name = str(item_name)
        self.item_price = float(item_price)
        self.item_quantity = int(item_quantity)

    def print_item_cost(self):
        """Print Item Cost."""
        return f"{self.item_name} {self.item_quantity} @ ${self.item_price:.2f}␣
 ↪= ${(self.item_price*self.item_quantity):.2f}"
```

[16]:
```
# Part 2

item_count = 2
items = []

for i in range(1,item_count+1):
    print(f"Item {i}")
    print(f"Enter the item name:")
    item_name = str(input())
    print(item_name)
    print(f"Enter the item price:")
    item_price = round(float(input()), 2)
    print(item_price)
    print(f"Enter the item quantity:")
    item_quantity = int(input())
    print(item_quantity)
    items.append(ItemToPurchase(item_name, item_price, item_quantity))
```

```
Item 1
Enter the item name:
Chocolate Chips
Enter the item price:
3.24
Enter the item quantity:
4
Item 2
```

```
Enter the item name:
Bottled Water
Enter the item price:
1.96
Enter the item quantity:
6
```

[18]:
```python
# Step 3

print("TOTAL COST\n")

total = 0
for item in items:
    print(item.print_item_cost(), "\n")
    total += item.item_price*item.item_quantity

print(f"Total: ${total:.2f}")
```

```
TOTAL COST

Chocolate Chips 4 @ $3.24 = $12.96

Bottled Water 6 @ $1.96 = $11.76

Total: $24.72
```