## Mid term project

Project: Grocery List Manager

What it does:

Stores grocery items with prices.

Calculates total cost

Uses dictionary, list, loop, functions, thread, lambda, append, list

comprehension, and operators — all very simply.

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code:
import threading
# to use thread

# Step 1: Create a dictionary of items and their prices
grocery = {
    "apple": 2,
    "banana": 1,
    "milk": 3
    }

# Step 2: Function to calculate total cost
def calculate_total():
    print("Calculating total...")
```

total = 0

for item, price in grocery.items(): # loop through dictionary

total += price # using operator +

print("Total Cost:", total)

# Step 6: Use list comprehension to get all item names item\_names = [item for item in grocery] print("Items:", item\_names)

## Output

Calculating total...

Total Cost: 6

Items: ['apple', 'banana', 'milk', 'bread', 'eggs']
Sorted by Price: [('banana', 1),

('apple', 2), ('bread', 2), ('milk', 3), ('eggs', 4)]

Concepts Used In Code **Operators** total += price Loops for item in grocery List/Tuple/Dict grocery, new\_items **Functions** calculate\_total() **Threads** threading.Thread List Comprehension [item for item in grocery] Lambda key=lambda x: x[1] Append new\_items.append()