**JaceWalker\_CH3\_PE3**

**Name:** Jace Walker

**Date Created:** 2/11/2025

**Program Description:**

This program asks the user for three of their expenses from this month. The type and amount are stored as a tuple but the amount is also placed into a list. The reduce function is used to find the total of the expenses inside the list. The min, max, and total are displayed back to the user at the end of the program.

**Functions used in the Program (list in order as they are called):**

1. **Function Name:** main()

**Description:** Asks user for three expenses. Stores the item and cost as a tuple. Also stores cost in its own list. Min and max method used to find min/max cost. Then, lambda function is used inside reduce function to determine the total expense. Lambda function was used because I only had to use it once. Assign the item that partners with each min and max cost. Display total expense, min cost/item, and max cost/item

**Parameters:** None

**Variables:** None

**Logical Steps:**

1. Ask user for expense item and cost
2. Store item/cost in tuple, store **ONLY** cost in separate list
3. Determine min/max cost
4. Reduce function to determine total expenses inside cost list
5. Determine which items go with min/max cost
6. Display total expense, min expense/item, and max expense/item

**Returns:** None

**Logical Steps:**

1. Call main function

**Link to your repository:** <https://github.com/jace-walker/COP2073>