**Technical Design Document: MarquesePendergrass\_ProgrammingExercise\_3.py**

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**Date Created:** September 25th, 2025

**Program Description:**

Program that prompts user to enter monthly expenses and then displays the total of expenses, the highest expense listed, and the lowest expense listed.

**Functions used in the Program:**

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

**Description:** Gets input from user for number of expenses, amount of each expense, and list the highest and lowest of the expenses.

**Parameters:** None

**Variables:**

1. expenses - stores expenses for name and amount
2. expenses\_number - number of expenses to enter
3. expenses\_name - name for expenses that get entered
4. amount - amount for each expense
5. total - total of all the expenses
6. highest - highest expense listed
7. lowest - lowest expense listed

**Logical Steps:**

1. Prompt user to enter number of expenses
2. Loop for collecting expense names and respective amounts
3. Use reduce with the lambda function for getting total
4. Use max to find highest
5. Use min to find lowest

**Returns:** None

**Logical Steps:**

1. User enters number of expenses
2. User enters name of expenses and respective amounts
3. Program gets the total for all the expenses and their values and displays it
4. Program get the highest expense and the lowest expense and displays it

**Link to repository:** <https://github.com/Tpender4/COP2373>

**Output Screenshot:**

**A black screen with white text

AI-generated content may be incorrect.**