Objectives:

* Creating Lists, adding & removing items from a list, sum and average numbers from a list.
* Creating List Boxes using Tkinter

Please submit this document for grading when completed… Please work in-groups.

**There are 5 Challenge Exercises, each worth 20%**

Tuples are **used to store multiple items in a single variable**.

**Project #1** (creating lists). A list is a container that can hold character or number values. Instead of having to declare multiple variables, we can use one variable and assign multiple parameters.

Text

Description automatically generated

Specifying which number in a list to print using indexes, notice the 0-index pointing to the number 2.

Text

Description automatically generated

|  |
| --- |
| Values = 2 4 6 8 10 |
| Indexes = 0 1 2 3 4 |
|  |

Sum the list of numbers using a for loop

Text, letter

Description automatically generated

**My code and output:**

Text

Description automatically generated

Text

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Text

Description automatically generated

**Project #2** (creating lists, with input values and outputting the list to a text file)

Text

Description automatically generatedGraphical user interface, text, application

Description automatically generated

Pass the name to the list

(Text

Description automatically generatedText

Description automatically generated with medium confidence

Text

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Text

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Text

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Text

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**Challenge Exercise #4:** continuing with project #6, the total function, output the numbers list to a text file.

**#4 print screen the running application with code below here.**

**Text

Description automatically generated**

Text

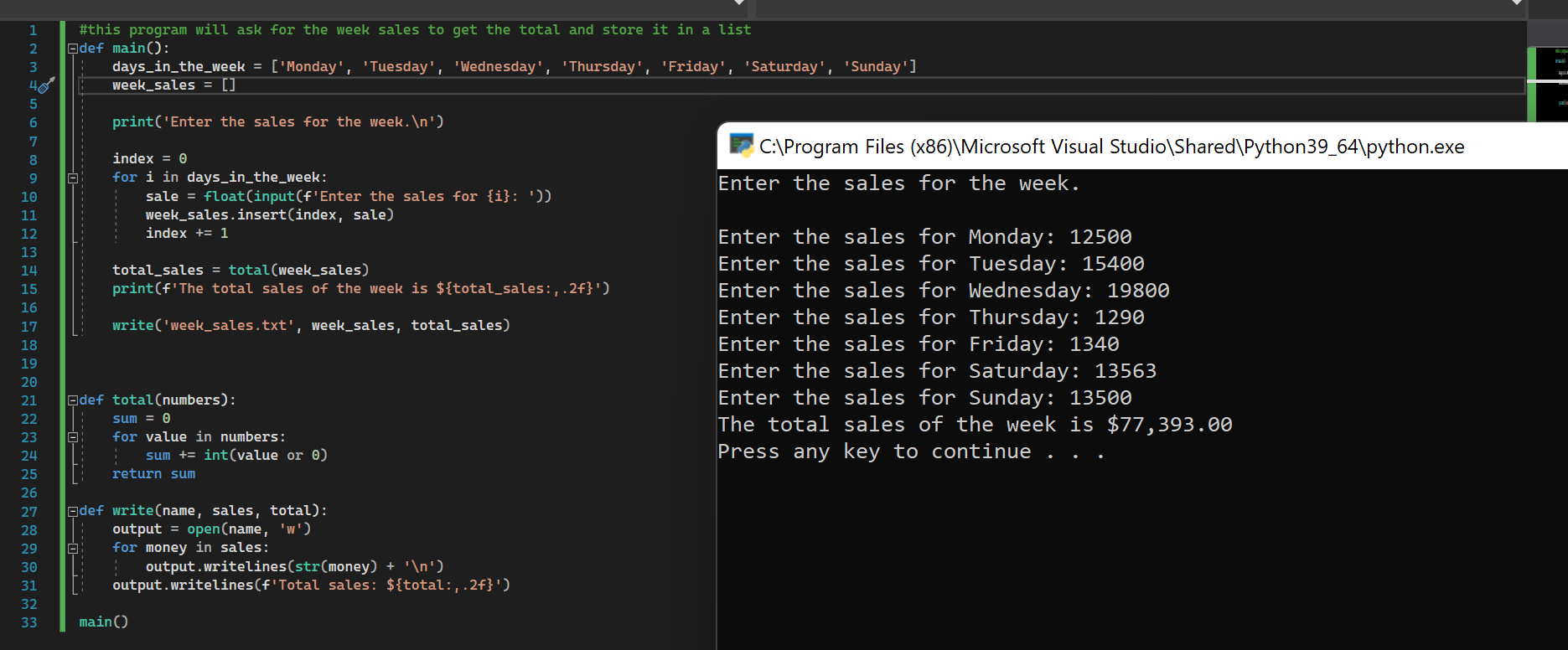
Description automatically generated

Graphical user interface, text

Description automatically generated

**Challenge Exercise #4:** TOTAL SALES APP: Design a program that asks the user to enter a store’s sales for each day of the week. The amount should be stored in a list. Use loop to calculate the total sales for the week and display the result. Plus output the results into a text file as well as the console.

**#4 print screen the running application with code below here.**



**My code and output:**

Text

Description automatically generated

Text

Description automatically generated

Text

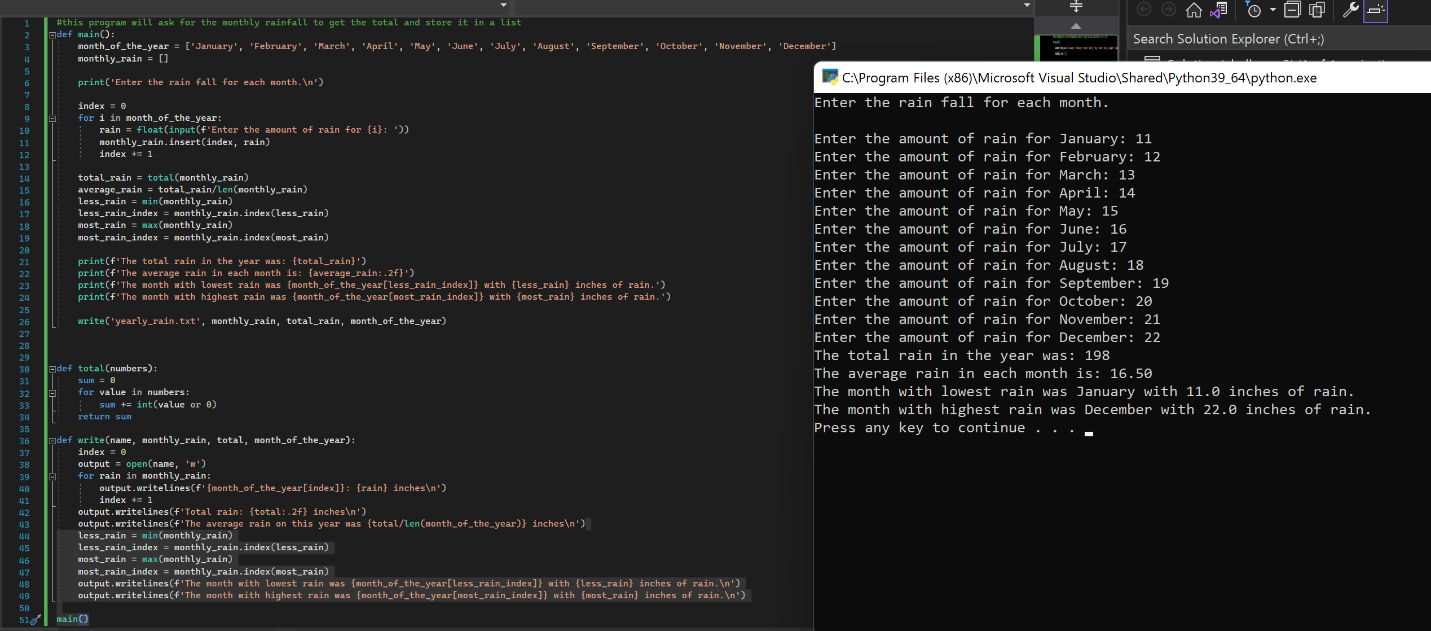
Description automatically generated

Graphical user interface, text

Description automatically generated

**Challenge Exercise #5:** RAINFALL APP: Design a program that lets the user to enter the total rainfall for each of the 12 months into a list. The program should calculate and display the total rainfall for the year, the average monthly rainfall, the months with the highest and lowest amounts of rainfall. Plus output the results into a text file as well as the console.

**#5 print screen the running application with code below here.98**



**My code and output:**

**Text

Description automatically generated**

**Text

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Text

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Text

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