Exercise 1.1 Learning Journal

1. In your own words, what is the difference between frontend and backend web development? If you were hired to work on backend programming for a web application, what kinds of operations would you be working on?

Front-end development is creating components that a user will see and interact with on an app. Back-end development is working on the server-side of an app to ensure functionality. Working on the back-end of an app would likely require working on databases, APIs, frameworks, and security.

2. Imagine you're working as a full-stack developer in the near future. Your team is asking for your advice on whether to use JavaScript or Python for a project, and you think Python would be the better choice. How would you explain the similarities and differences between the two languages to your team? Drawing from what you learned in this Exercise, what reasons would you give to convince your team that Python is the better option?
   (Hint: refer to the Exercise section "The Benefits of Developing with Python")

Python and JavaScript are both high level scripting languages that use understandable command keywords and dynamic typing. Python differs from JavaScript in that Python makes it easy to read and maintain code while JS flexibility makes for less readability and maintainability. Python also has simple built in package manager and strong community support.

3. Now that you've had an introduction to Python, write down 3 goals you have for yourself and your learning during this Achievement. You can reflect on the following questions if it helps you. What do you want to learn about Python? What do you want to get out of this Achievement? Where or what do you see yourself working on after you complete this Achievement?

- I would like to learn writing more advanced functions in python.
- I would like to fully understand pip installations.
- I would like to learn file handling and other advanced concepts.