### Exercise 1.1: Getting Started with Python

#### Learning Goals

* Summarize the uses and benefits of Python for web development
* Prepare your developer environment for programming with Python

#### Reflection Questions

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?*
   1. The frontend is the client side of the web application product that the user sees and interacts with. The backend is the server, business logic and data sides of the web application. As a backend developer, I would work on APIs and servers by interacting with databases, files, or other servers; processing user requests and data; compiling web pages; and communicating with server administrators.
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”)*
   1. Python and JavaScript are both high-level scripting languages that use dynamic typing. And they both use understandable keywords to make commands and perform tasks. Python would be better for this project because we can use virtual environments to keep packages separated. Also, Python’s built-in command line interface will be helpful.
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?*
   1. What do you want to learn about Python? – Everything in the lessons and the additional readings, if I have time
   2. What do you want to get out of this Achievement? – I want to thoroughly understand everything in this Achievement. I hope I will be able to do the bonus assignments without falling behind.
   3. Where or what do you see yourself working on after you complete this Achievement? – Of course, I will move straight to Achievement 2, but I hope to have a deeper understanding of Python. I want to think of all the possibilities of things I can do with the knowledge I have after A1 is completed.