

Lab Week 2 Grading Rubric and Instructions

This lab is assigned for Week 2 of COM S 127: Introduction to Programming.

This lab is due by the end of the lab period seven (7) days after the one it is assigned in. See the syllabus for details.

Lab Objective

The objective of the lab is for you, the student, to confirm that you have installed the Python programming language on either your laptop or desktop computer, that you have installed an IDE such as VS Code, and that you have access to both the Runestone textbook and Piazza. You will also start reading the Runestone textbook by completing chapters 1, 2, and 3, and taking notes on these in your Engineering Notebook. Do not worry about the exercises at the ends of these chapters.

NOTE: Although you may ultimately use whichever IDE you choose, the Instructors and TAs will only support VS Code.

Instructions/ Deliverables

NOTE: These tasks can be completed in any order you like. See the **Grading Items** section below for the point distribution.

- Show the TA that you know where the 'Files,' 'Grades,' and 'Assignments' sections on the Canvas page are.
- Show the TA that you can log on to Piazza, and are registered for the correct class. See the syllabus for details.
- Show the TA that you are registered for the correct course on Runestone Academy. See the syllabus for details.
- Follow along with the slides found in the 'Files' -> 'Week1' -> 'lecture1' folder on Canvas, and complete the installation of both Python and VS Code.
- Demonstrate to the TA that Python is installed correctly by running the `python --version` (PC) or `python3 --version` (Mac) command.
- Demonstrate to the TA that you have created a dedicated folder for your COM S 127 code on your desktop called `COMS127`.
- Create a new sub-folder inside your `COMS127` folder called 'labWeek2' and demonstrate to the TA that you can properly open this folder in VS Code, such that is your active folder.
- Inside your new 'labWeek2' folder, use VS Code to create a file called `hello.py` and type in the following code (be sure to save if you see the 'white dot'):

```
print("Hello, World!")
```

- Show the TA that you can open the terminal with the **CTRL+`** command (PC) or **Control+`** command (Mac), then run your hello.py script with the `python hello.py` (PC) or `python3 hello.py` (Mac) command.
- You will copy the following statement into your Engineering Notebook. After you have done so, you will look the TA directly in the eye and clearly say the following: **"I will not use 'the button' in the upper right hand corner of VS Code to run my code. This is the button that looks like a triangle pointing to the right, or a 'play button' from a VCR/ DVD player. I realize that there may be a keyboard shortcut to enable the same behavior as 'the button,' but I will not use that either. I realize that there is a menu option to enable the same behavior as 'the button,' but I will not use that either. I realize that there may be a myriad of ways to enable the same behavior as 'the button,' but I will not use any of them. I will only run my code on the terminal by typing out the python/ python3 command, followed by the name of my .py file. I will open up the terminal with the CTRL+\` command on PC, or Control+\` on Mac. I recognize that if my python/ python3 command does not work, then I am probably in the wrong folder in the terminal. I will need to confirm the directory of the file I want to run, and then confirm the current directory in the terminal. I realize that I can see the directory in the terminal on PC and can just type `cd` then press `enter` to print it out. I can use the `pwd` command to see the directory on Mac. I realize I may have to change the folder I am in with the `cd [folder name]` or `cd ../` commands, as shown on the week 1 lecture 2 class slides. Or, I can use the 'File' -> 'Open Folder' command in VS Code, in order to fix the problem."**
 - **NOTE:** If you have religious objection to making the above statement, please just tell the TA and you will be given the points without having to state the words above.
- Read Runestone chapters 1, 2, and 3, and show the TA the notes you took in your Engineering Notebook for each chapter once you are done.
 - **NOTE:** You do not need to complete any of the exercises at the end of the chapter. However, it would be helpful to you in the long term if you were to do so.

NOTE: If you use a desktop computer as your primary workstation, and you do not own a laptop, you will need to use WebEx to connect with a TA either during TA office hours, or during the lab session itself, and then do a 'screen share' to show that you have properly installed Python and VS Code.

Files Provided

Canvas -> 'Files' -> 'Lecture Slides and Code' -> 'Week1' -> 'lecture1'

- 1_Canvas_Access.pptx
- 2_Piazza_Access.pptx
- 3_Runestone_Access.pptx
- 4_Python_Install.pptx
- 5_VS_Code_Install.pptx
- 6_Workflow.pptx

Example Output

None

Grading Items

- **(Attendance)** Did the student attend the lab meeting, or make arrangements to attend virtually via WebEx?: _____ / 1
- **(Canvas Access)** Has the student demonstrated their Canvas access and knowledge of the 'Files,' 'Grades,' and 'Assignments' sections?: _____ / 1
- **(Piazza Access)** Has the student demonstrated their Piazza access, and that they have signed up for the correct course?: _____ / 1
- **(Runestone Access)** Has the student demonstrated their Runestone access, and that they have signed up for the correct course?: _____ / 1
- **(Python Installation)** Has the student demonstrated their Python installation is working via the `python --version` (PC)/ `python3 --version` (Mac) command in the terminal?: _____ / 1
- **(IDE Demo)** Has the student demonstrated that they have installed an IDE (such as VS Code), created a folder on the desktop called COMS127, created a sub-folder for labWeek2, created the `hello.py` file detailed above, and run that file via the `python hello.py` (PC) or `python3 hello.py` (Mac) command on the terminal?: _____ / 1
- **(Button Statement)** Has the student copied the bolded statement into their Engineering Notebook and then clearly read it to the TA?: _____ / 1
- **(Reading)** Has the student read chapter 1 of the Runestone textbook and shown their notes in their Engineering Notebook to the TA?: _____ / 1
- **(Reading)** Has the student read chapter 2 of the Runestone textbook and shown their notes in their Engineering Notebook to the TA?: _____ / 1
- **(Reading)** Has the student read chapter 3 of the Runestone textbook and shown their notes in their Engineering Notebook to the TA?: _____ / 1

TOTAL _____ / 10