Python Exercise 2

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1 Instructions

Finish the following exercises on a piece of paper and scan a PDF file by 20:59 PM CST, Jan 13. The exercise takes no more than **20** minutes in total. Record the time it takes to finish, and write it down at the end of your answers.

2 Class Recap

In today's lesson, we went over naming rules, operators and precedence, math and random module, type conversion and type compatibility.

3 Exercise

3.1 Naming Rules

- 1. Write down what naming cases the following variable/function/Package name use: loadVPN, upload_address, FlashLoad.
- 2. What cases do we use to name variables in Python?

3.2 Operators and Precedence

- 1. What does + mean when it's between two integers? What does it mean when between one integer and one float? Between two strings? Between one string and one integer?
- 2. What are the differences among /, //, %?
- 3. What will 4 * 4 returns? And what about 4.0 * 4? What are the differences?

3.3 Modules

- 1. What do we write to introduce an external module in Python?
- 2. What functions that belong to the math module can you recall?
- 3. What does import random; random.random() return?

- 4. Play around with Python in VS Code, and write down one line of code that returns one random float between 10 and 11 (exclusive).
- 5. Play around with Python in VS Code, and write down one line of code that returns one random float between 10 and 15.
- 6. What is the range of integer in which number is returned from random.randint(a, b)

3.4 Type Conversion and Compatibility

- 1. What is the function that converts a string to an integer?
- 2. Try using bool() on "True", "Ok", 1, 99, and 0. Search in Google why these outputs are returned (You may want to search documentation for bool() to start).