

Python Exercise 4

Siyuan Peng

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1 Instructions

Finish the following exercises **without referring to your notes** on a piece of paper and scan a PDF file by 20:59 PM CST, Jan 14. The exercise takes no more than **30** 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 learnt `for` loops and deepened our understanding on naming rules in Python.

3 Exercise

3.1 Naming Rules 2

1. Describe the allowed character to name a variable in Python.
2. Consider if the following names can be used as variable names.
 - (a) `apple_price`
 - (b) `MyList`
 - (c) `24hours`
 - (d) `h&m_address`
 - (e) `my number`
 - (f) `import`
3. Can we assign value to the same variable for multiple times?

3.2 For Loops

1. What data type does `range` function returns?
2. What numbers are included in `range(10)`?

3. What numbers are included in `range(9, 15)`?
4. What numbers are included in `range(2, 10, 3)` (You may want to search this on Google)?
5. Write a `for` loop to print the square root of every number from 1 to 100.
6. Can you define a function within a loop? Can you include a loop within the definition of one function?
7. Write a `for` loop to sum up all the values from 1 to 100.