Module 2 Assignment

Variable Types and What They Can Do

# Instructions

For our assignment, we will define some of these types, print their value, and print their type. Create a jupyter notebook called ‘module2\_assignment’ and use it to answer the homework problems below.

# Homework Problems

There are 8 short problems below. For each problem, create the variable as instructed and print the variable value and the variable type. The goal of this homework assignment is to get comfortable creating the different types of variables in Python.

1. Create a variable called ‘my\_number’ and assign it the value 3.5
2. Create a variable called ‘my\_int’ and assign it the value 5
3. Create a variable called ‘my\_string’ and assign it the value ‘university’
4. Create a variable called ‘my\_list’ and assign it a list with the following values: 1.0, ‘hello’, [1, 2]. Note that the third item listed is a list. This is ok, an item in a list can be a list itself.
5. Create a variable called ‘my\_tuple’ and assign it a tuple with the values 1.3 and 3.5
6. Create a dictionary named ‘my\_dictionary’. It should have the following keys and values: the first key is ‘name’ and the corresponding value is ‘shannon’, the second key is ‘age’ and the value is 37.
7. Create a set that contains the values ‘apple’, ‘orange’, ‘banana’
8. Create a boolean variable and assign it the value False.

Remember to also print the variable value *and* the variable type.

Here is an example of creating a list and printing its value and type

|  |
| --- |
| my\_list = [1, 2, 3]  print(my\_list) # '[1, 2, 3]' will print  print(type(my\_list)) # '<class 'list'>' will print |

## How to Turn in The Assignment

Download the notebooks as a Python file (Go to the file menu, in Jupyter notebooks, and choose "Download as…", then choose python to download as a python file) and submit the assignment.