

Self-Assessment Chapter 1

This diagnostic covers material from Chapter 1 of Modeling and Simulation in Python. Its purpose is to check your understanding of the chapter and to make sure you know what you need to know before you start work on the notebook.

It is open book, open notes, open computer. You can take as long as you need. If you have not done the reading yet, do it now. You should make a reasonable effort to complete the diagnostic on your own. Check your answers with your classmates when you meet outside of class.

Vocabulary

Learning the vocabulary of this class is important, because it will allow you to communicate with each other and the instructors, and it will help you understand the error messages you get from Python. Pay special attention to the vocabulary words in the book that are in **bold type**.

Fill in the blanks in the following sentences with the words that make the most sense.

1. A _____ is a name that corresponds to a value.
2. **System** objects contain _____.
3. In a function definition, the first line ends with a _____ and the _____ of the function has to be indented.
4. When you call a function, the values you provide are called _____; inside the function, those values get assigned to the functions _____.
5. In Python, **True** and **False** are _____, not to be confused with 'True' and 'False', which are _____.

Code

Write code that creates a **System** object that contains two system variables, named heads and tails, assigns the value 0 to both, and assigns the **System** object to a variable named penny.