Weekly challenge 1

1.A manager explores which programming language their team can use to perform coding work most effectively. They want a language with thousands of open-source libraries for reference. Ultimately, they select Python. What are some other benefits of using Python for coding? Select all that apply. 1 / 1 point

☑ Python is based on simple syntax.

⊘

Correct
Review the video that introduces Python.

☐ Python is a low-level language.

☑ Python is versatile.

⊘

Correct
Review the video that introduces Python.

☑ Python has a large and supportive user community.

⊘
Correct

2.Fill in the blank: The open-source web application _____ enables users to share documents containing live code, mathematical formulas, visualizations, and text. It also puts all output into a single document, which is very useful when first learning about programming.1 / 1 point

◯ Dot notation

◉ Jupyter Notebook

◯ Dynamic coding

◯ Implicit analysis

⊘**Correct**

3.Fill in the blank: In Python, a _____ is a function that belongs to a class and typically performs an action or operation.1 / 1 point

◉ method

◯ cell

◯ string

○ keyword

✓
Correct

4. In Python, what does assignment refer to?
1 / 1 point

○ A value associated with an object or class which is referenced by name using dot notation

○ A sequence of characters and punctuation that contains textual information

○ A combination of numbers, symbols, or other variables that produce a result when evaluated

◉ The process of storing a value in a variable

✓
Correct

5. A data professional names a variable in Python. To ensure they follow proper naming conventions, what may the variable name contain? Select all that apply. **1 / 1 point**

☑ Letters
✓
Correct

☐ Reserved keywords

☑ Numbers
✓
Correct

☑ Underscores
✓
Correct

6. Which of the following is an effective variable name? **1 / 1 point**

◉ `example_variable_5`

○ `variable()`

○ `_for 5 variables`

○ `5_variables`

⊘
Correct

7.In Python, which data type represents numbers that contain decimals? 1 / 1 point

⦿ Float

○ Boolean

○ String

○ Integer

⊘
Correct

8. A data professional converts integers into strings using a predefined function. This is an example of what type of conversion? 1 / 1 point

○ Implicit conversion

○ Immutable conversion

○ Mutable conversion

⦿ Explicit conversion

⊘
Correct