1. A data professional can use a `while` loop to perform which of the following tasks?   1 / 1 point

    ◉ To repeat a specific block of code until a condition is met
    ○ To define a function
    ○ To convert one data type to another
    ○ To iterate over a sequence of values

    ✓ Correct

2. Fill in the blank: The Python `range()` function returns a sequence of numbers starting from _____; then increments by one, by default; then stops before the given number.   1 / 1 point

    ○ two
    ○ one
    ○ three
    ◉ zero

    ✓ Correct

3. What Python code instructs the computer to loop through values from 750 to 850?   1 / 1 point

    ○ `for x in range(750, 850):`
    ◉ `for x in range(750, 851):`
    ○ `for x in range(751, 850):`
    ○ `for x in range(751, 851):`

    ✓ Correct

4. A data professional wants to set up a `for` loop. They write the following code: `for x in range(5, 101, 10):`. What is the step value of the `range()` function?   1 / 1 point

    ◉ 10
    ○ 5
    ○ 101

○ 100

✓ Correct

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5. What Python code can a data professional use to concatenate the strings **`'brain'`** and **`'storm'`**?

○ 'brain' % 'storm'

○ 'brain' == 'storm'

○ 'brain' != 'storm'

◉ 'brain' + 'storm'

✓ Correct

1 / 1 point

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6. In Python, what method works by interpreting a string as a sequence of characters, where each character has a numbered slot?

○ format()

○ range()

◉ index()

○ type()

✓ Correct

1 / 1 point

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7. A data professional assigns the string **`'palm and pine'`** to the variable **`trees`**. What Python code can they use to find the index of the character **`'m'`**?

○ index.palm('m')

○ palm.index('m')

○ index.trees('m')

◉ trees.index('m')

✓ Correct

1 / 1 point

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8. A data professional assigns the string **`'classical'`** to the variable **`genre`**. What Python code will return the slice **`'class'`**?

○ genre[5:]

◉ genre[:5]

1 / 1 point

○ `genre[1:5]`

○ `genre[-1]`

⊘ Correct

9. Fill in the blank: A data professional can use the `format()` method to _____ specific substrings in a larger string.   0 / 1 point

◉ evaluate

○ measure

○ insert

○ print

⊗ Incorrect
Review the video about string formatting. ↗