1. Which of the following is not a sequence data-type in Python? 1 / 1 point

◯ Tuples

◯ String

◯ List

◉ Dictionary

✓ **Correct**
Correct! Dictionaries have key-value object structure and are not sequences.

2. For a given list called new_list, which of the following options will work: 1 / 1 point

new_list = [1,2,3,4]

Select all that apply.

☐ new_list[4] = 10

☑ new_list.extend(new_list)

✓ **Correct**
Correct. This will extend the list to give [1,2,3,4,1,2,3,4]

☑ new_list.insert(0, 0)

✓ **Correct**
Correct. This will insert 0 at the 0th index giving: [0,1,2,3,4]

☑ new_list.append(5)

✓ **Correct**
Correct. This will append the value 5 to the list giving: [1,2,3,4,5]

3. Which of the following is not a type of variable scope in Python? 1 / 1 point

◯ Local

◯ Global

◯ Enclosing

◉ Package

✓ **Correct**
Correct. Packages do not define a scope, they are external installations that we bring to extend code functionality.

4. Which of the following is a built-in data structure in Python?   1 / 1 point

- ○ Queue
- ○ Tree
- ○ LinkedList
- ◉ Set

✓ **Correct**
Correct! Set is a built-in data structure such as list, tuple, etc.

5. For a given file called 'names.txt', which of the following is NOT a valid syntax for opening a file: 1 / 1 point

- ○ with open('names.txt', 'r') as file:

    print(type(file))
- ○ with open('names.txt', 'w') as file:

    print(type(file))
- ○ with open('names.txt', 'rb') as file:

    print(type(file))
- ◉ with open('names.txt', 'rw') as file:

    print(type(file))

✓ **Correct**
Correct. It should either be 'r' mode for reading or 'w' mode for writing.

6. Which among the following is not a valid Exception in Python?   1 / 1 point

- ○ ZeroDivisionException
- ○ FileNotFoundError
- ○ IndexError
- ◉ LoopError

✓ **Correct**
Correct. There is no such Exception defined in Python.

7. For a file called name.txt containing the lines below:

```
1    First line
2    Second line
3    And another !
```

What will be the output of the following code:

```
1    with open('names.txt', 'r') as file:
2    │  lines = file.readlines()
3    print(lines)
```

- ○ 'First line'
- ⦿ ['First line\n',

    'Second line\n',

    'And another !']
- ○ ['First line']
- ○ 'First line'

    'Second line'

    'And another !'

✓ **Correct**
Correct! readlines() returns an ordered list with lines in the text file as items in the list.

8. State TRUE or FALSE:

*args passed to the functions can accept the key-value pair.

- ○ True
- ⦿ False

✓ **Correct**
Correct! You use **kwargs for passing dictionaries or videos containing key-value pairs.