

# Python MCQ

## Advanced Level - (10 Questions)

1. What is the output of the following code snippet? `x = 5 print(x >> 1)`
  - a) 2
  - b) 2.5
  - c) 5
  - d) 10
  
2. What is the purpose of the 'yield' keyword in Python?
  - a) To create a generator function
  - b) To pause and resume the execution of a function
  - c) To return a value from a function
  - d) To raise an exception
  
3. What is the difference between 'deepcopy' and 'copy' in Python's copy module?
  - a) deepcopy creates a shallow copy, while copy creates a deep copy
  - b) deepcopy creates a deep copy, while copy creates a shallow copy
  - c) Both functions create shallow copies
  - d) Both functions create deep copies
  
4. What is the output of the following code snippet? `import math print(math.trunc(3.5))`
  - a) 3.5
  - b) 3
  - c) 4
  - d) 0.5
  
5. Which of the following is not a valid type of data structure in Python?
  - a) Array
  - b) Queue
  - c) Dictionary
  - d) LinkedList
  
6. What is the purpose of the 'sys' module in Python?
  - a) To interact with the operating system
  - b) To perform mathematical operations

- c) To manipulate strings
- d) To generate random numbers

7. What is the output of the following code snippet? `x = 'hello' print(x[::-1])`

- a) olleh
- b) hello
- c) lo
- d) h

8. What is the purpose of the 'with' statement in Python?

- a) To define a context manager
- b) To handle exceptions
- c) To create a generator function
- d) To create a decorator

9. What is the output of the following code snippet? `print(2 ** 3 ** 2)`

- a) 64
- b) 512
- c) 72
- d) 18

10. Which of the following is true about Python's Global Interpreter Lock (GIL)?

- a) It allows only one thread to execute at a time
- b) It allows multiple threads to execute simultaneously
- c) It is used for memory management
- d) It is specific to the CPython implementation

# Answers

1. a) 2
2. a) To create a generator function
3. b) deepcopy creates a deep copy, while copy creates a shallow copy
4. b) 3
5. a) Array
6. a) To interact with the operating system
7. a) oleh
8. a) To define a context manager
9. b) 512
10. a) It allows only one thread to execute at a time