

Q1-Q8: Single Correct Answer

1. ****Which of the following operators is used to calculate remainder in a division?****

- A) #
- B) &
- C) %
- D) \$

****Answer: C) %****

The ``%`` operator is used to calculate the remainder of a division in Python.

2. ****In Python, ``2//3`` is equal to?****

- A) 0.666
- B) 0
- C) 1
- D) 0.67

****Answer: B) 0****

The ``//`` operator performs integer (floor) division, which discards the fractional part, resulting in ``0`` for ``2//3``.

3. ****In Python, ``6<<2`` is equal to?****

- A) 36
- B) 10
- C) 24
- D) 45

****Answer: C) 24****

The `<<` operator performs a bitwise left shift. `6 << 2` shifts the bits of `6` two places to the left, which results in `24`.

4. ****In Python, `6&2` will give which of the following as output?****

- A) 2
- B) True
- C) False
- D) 0

****Answer: D) 0****

The `&` operator performs a bitwise AND operation. `6` (binary `110`) AND `2` (binary `010`) results in `0`.

5. ****In Python, `6|2` will give which of the following as output?****

- A) 2
- B) 4
- C) 0
- D) 6

****Answer: D) 6****

The `|` operator performs a bitwise OR operation. `6` (binary `110`) OR `2` (binary `010`) results in `6`.

6. ****What does the `finally` keyword denote in Python?****

- A) It is used to mark the end of the code

- B) It encloses the lines of code which will be executed if any error occurs while executing the lines of code in the try block.
- C) The `finally` block will be executed no matter if the try block raises an error or not.
- D) None of the above

****Answer: C) The finally block will be executed no matter if the try block raises an error or not.****

The `finally` block is executed regardless of whether an exception is raised or not in the `try` block.

7. ****What does the `raise` keyword is used for in Python?****

- A) It is used to raise an exception.
- B) It is used to define a lambda function
- C) It's not a keyword in Python.
- D) None of the above

****Answer: A) It is used to raise an exception.****

The `raise` keyword is used to trigger an exception manually.

8. ****Which of the following is a common use case of the `yield` keyword in Python?****

- A) In defining an iterator
- B) While defining a lambda function
- C) In defining a generator
- D) In a for loop.

****Answer: C) In defining a generator****

The ``yield`` keyword is used to define a generator function, which allows the function to return values one at a time and pause execution between each.

Q9-Q10: Multiple Correct Answers

9. ****Which of the following are the valid variable names?****

- A) `_abc`
- B) `1abc`
- C) `abc2`
- D) None of the above

****Answers: A) `_abc`, C) `abc2`****

Variable names in Python must start with a letter or an underscore and can be followed by letters, digits, or underscores. ``1abc`` is invalid because it starts with a digit.

10. ****Which of the following are keywords in Python?****

- A) `yield`
- B) `raise`
- C) `look-in`
- D) all of the above

****Answers: A) `yield`, B) `raise`****

``yield`` and ``raise`` are keywords in Python, while ``look-in`` is not.