

FLIP ROBO TECHNOLOGIES

INTERNSHIP – DS0523

PROJECT - BATCH DS2311

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PYTHON WORKSHEET - 1

In Q1 to Q8 have only one option is correct, choose the correct option:

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

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

Solution: C) %

2. In python 2//3 is equal to?

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

Solution: B) 0

3. In python, 6<<2 is equal to?

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

Solution: C) 24

The << operator is the left shift operator.

Shifting the bits of a number to the left by a certain number of positions is equivalent to multiplying the number by 2 raised to the power of that number.

So, 6 << 2 means shifting the bits of 6 to the left by 2 positions, which is to multiplying 6 by 2 raised to the power of 2.

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

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

Solution: A) 2

The & operator is the bitwise AND operator. It performs a bitwise AND operation on the corresponding bits of two numbers. The binary representation of 6 is 110 and the binary representation of 2 is 010. Performing a bitwise AND operation results in 010 which is 2.

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

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

Solution: D) 6

The | operator is the bitwise OR operator. It performs a bitwise OR operation on the corresponding bits of two numbers. The binary representation of 6 is 110 and the binary representation of 2 is 010. Performing a bitwise OR operation results in 110 which is 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

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

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 lambda function
- C) it's not a keyword in python.
- D) None of the above

Solution: A) It is used to raise an exception

8. Which of the following is a common use case of yield keyword in python?

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

Solution: C) in defining a generator

Q9 and Q10 have multiple correct answers. Choose all the correct options to answer your question.

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

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

Solution: A) _abc & C) abc2

10. Which of the following are the keywords in python?

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

Solution: A) Yield & B) Raise