

Q1 to Q8 have only one correct answer. Choose the correct option to answer your question.

- [illegible]

- **% operator is used to calculate remainder in a division**

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

➤ // operator is used for floor division and it will remove the fractional part so $2//3$ will give 0 answer

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

- <<-left shift operator means left shift by n is equal to multiply with $\text{pow}(2,n)$ so $6 \ll 2$ means left shift by 2 is equal to multiply with $\text{pow}(2,2)$

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

- **&-Bitwise AND operator means perform AND operation between the binary numbers of the given digits**

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

➤ **-Bitwise OR operator means perform OR operation between the binary numbers of the given digits**

- 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

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

- **Raise keyword** is used to raise an exception.

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

➤ **common use case of yield keyword in python**

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 |

Answer: Option A, Option B, Option C

10. Which of the following are the keywords in python?
- | | |
|------------|---------------------|
| A) yield | B) raise |
| C) look-in | D) all of the above |

Answer: Option A, Option B

Q11 to Q15 are programming questions. Answer them in Jupyter Notebook.

11. Write a python program to find the factorial of a number.
12. Write a python program to find whether a number is prime or composite.
13. Write a python program to check whether a given string is palindrome or not.
14. Write a Python program to get the third side of right-angled triangle from two given sides.
15. Write a python program to print the frequency of each of the characters present in a given string.

➤ For all these programs, I have uploaded [Python worksheet 1.ipynb](#) on GitHub
