**PYTHON WORKSHEET-1**

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

A) # B) &

C) % D) $

Ans: C

You can use the % operator to find the remainder of a division and compare the result with 0.

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

A) 0.666 B) 0

C) 1 D) 0.67

Ans: B

In Python2, dividing two ints uses integer division, which ends up getting you the same thing as floored division.

However, you can still use // to get a floored result of floating-point division. Example:

# Python 2

>>> 10.0 / 3

3.3333333333333335

>>> 10.0 // 3

3.0

However, in Python3, dividing two int’s results in a float, but using // acts as integer division. Example:

# Python3

>>> 10 / 3

3.3333333333333335

>>> 10 // 3

3

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

A) 36 B) 10

C) 24 D) 45

Ans: C

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

A) 2 B) True

C) False D) 0

Ans: A

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

A) 2 B) 4

C) 0 D) 6

Ans: D

6. What does the final keyword denotes 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 final block will be executed no matter if the try block raises an error or not.

D) None of the above

Ans: C

7. What does 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

Ans: A

The raise keyword is used to raise an exception. You can define what kind of error to raise, and the text to print to the user.

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.

Ans: C

Yield is a keyword in Python that is used to return from a function without destroying the states of its local variable and

when the function is called, the execution starts from the last yield statement. Any function that contains a yield keyword is

termed a generator. Hence, yield is what makes a generator. The yield keyword in Python is less known off but has a greater

utility which one can think of.

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

Ans: A, B and C

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

A) yield B) raise

C) look-in D) all of the above

Ans: A and 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.