

## **PYTHON – WORKSHEET 1**

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

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

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

**Ans: C) %**

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

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

**Ans: B) 0**

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

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

**Ans: C) 24**

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

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

**Ans: A) 2**

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

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

**Ans: D) 6**

6. What does the finally 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 finally block will be executed no matter if the try block raises an error or not.
- D) None of the above

**Ans: the finally block will be executed no matter if the try block raises an error or not.**

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: 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.                     |

**Ans: 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 |

**Ans: A) 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: D) all of the above**

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

1. Write a python program to find the factorial of a number.
  2. Write a python program to find whether a number is prime or composite.
  3. Write a python program to check whether a given string is palindrome or not.
  4. Write a Python program to get the third side of right-angled triangle from two given sides.
  5. Write a python program to print the frequency of each of the characters present in a given string.
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