

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: C) 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: 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. |

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) <code>_abc</code> | B) <code>1abc</code> |
| C) <code>abc2</code> | D) None of the above |

ANS: A) `_abc` & C) `abc2`

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

ANS: A) `yield` & B) `raise`

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.
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