

**WORKSHEET 3 PYTHON** Q1 to Q8 have only one correct answer. Choose the correct option to answer your question. 1. Which of the following will raise a value error in python? B) int(3.2)A) int(32) C) int(-3.2)D) int('32') Answer D) int('32') 2. What will be the output of round(3.567)? A) 3.5B) 3.0 C) 4 D) 3 Answer C)4 3. How is the function pow(a,b,c) evaluated in python? A) a\*\*b\*\*c B) (a\*\*b)%c C) (a\*\*b)\*cD) (a\*\*b)\*\*c Answer B) (a\*\*b)%c 4. What will be the output of **print(type(type(int)))** in python 3? A) <class 'type'> B) <type 'type'> C) <class 'int'> D) <type 'int'> Answer A)<class 'type'> 5. What will be the output of **ord(chr(65))**? A) 'A' B) 'a' C) 65 D) TypeError Answer C)656. What is called when a function is defined inside a class? A) Module B) Function C) \_init\_ function D) Method Answer D) Method 7. What will be the output of all([1, 0, 5, 7])? A) 0 B) False C) True

Answer

B)False



- 8. Is the output of the function abs() the same as that of the function math.fabs()?
  - A) Always

B) Sometimes

C) Never

D) None of these

Answer

B) Sometimes

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

9. Select all correct float numbers in python?

A) -68.7e100

B) 42e3

C) 4.2038

D) 3.0

Answer

A) -68.7e100

C) 4.2038

- 10. Which of the following is(are) correct statement(s) in python?
  - A) You can pass positional arguments in any order.
  - B) You can pass keyword arguments in any order.
  - C) You can call a function with positional and keyword arguments.
  - D) Positional arguments must be before keyword arguments in a function call

Answer

- B)You can pass keyword arguments in any order.
- C)You can call a function with positional and keyword arguments.
- D)Positional arguments must be before keyword arguments in a function call

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

11. Write a python function print pyramid of stars. Level of the pyramid should be taken as an input from the user. E.g.

Input = 5

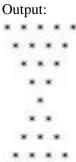
Output:





12. Write a python function print Hourglass pattern.

Input = 5



13. Write a python function to print Pascal's Triangle. The number of levels in the triangle must be taken as input by the user. E.g.

Input = 5

Output:

1

11

121

1331

14641

14. Write a python function to print Diamond Shaped Pattern shown below. Function must take integer input which represents the number of stars in the middle most line. E.g.:

Input = 5

Output:





15. Write a python function to print Diamond Shaped Character Pattern shown below. Function must take integer input within range 1 to 26, which represents the rank of the alphabet. E.g.:

Input = 5

Output:

A AB ABC ABCD ABCDE ABCD ABC AB A