ASSIGNMENT WORKSHEET 3 PYTHON

**Q-1 to Q-8 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?

A) int(32) B) int(3.2) **C) int(-3.2)**  D) int(‘32’)

2. What will be the output of round(3.567)?

A) 3.5 B) 3.0 **C) 4** D) 3

3. How is the function pow(a,b,c) evaluated in python?

A) a\*\*b\*\*c **B) (a\*\*b)%c** C) (a\*\*b)\*c D) (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’>

5. What will be the output of ord(chr(65))?

A) ‘A’ B) ‘a’ **C) 65** D) TypeError

6. What is called when a function is defined inside a class?

A) Module B) Function C) \_init\_ function **D) Method**

7. What will be the output of all([1, 0, 5 ,7])?

A) 0 **B) False** C) True D) error

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

**Q-9 and Q-10 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**

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

**Q-11 to Q-15 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. E.g. Input = 5 Output:

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 1 1 1 2 1 1 3 3 1 1 4 6 4 1

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: