

	WORKSHEET 2 PYTHON
Q1 to Q7 have only one corr	et answer. Choose the correct option to answer your question.
1. Which of the following	s not a core datatype in python?
A) list	B) <mark>struct</mark>
C) tuple	C) set
2. Which of the following	s an invalid variable name in python?
A) _init_	B) no_1
C) 1_no	D) _1
3. Which one of the follo	ng is a keyword in python?
A) <mark>in</mark>	B) _init_
C) on	D) foo
4. In which of the followi A) Left to Right	g manner are the operators of the same precedence executed in python? B) BODMAS
C) Right to Left	D) None of these
_	decreasing order of the precedence when they appear in an expression in python? ision iii) Exponential iv) Parentheses
A) $iii - iv - ii - i$ C) $iv - iii - ii - i$	B) iii – iv – i – ii D) iii – ii – i – iv
6. $(28//6)**3/3\%3 = ?$	
A) 7.1111	B) 0
C) 0.3333	D) 1
7. a = input("Enter an integer"	What will be the data type of a?
A) int	B) <mark>str</mark>
C) float	D) double
Q8 and Q10 have multiple of	rect answers. Choose all the correct options to answer your question.
8. Which of the following	tatements are correct?
A) Division and mult	lication have same precedence in python
B) Python's operator	precedence is based on PEDMAS
C) Python's operator	precedence is based on VBODMAS
D) In case of operato	having the same precedence, the one on the left side is executed
<mark>first.</mark>	

B) a b c = $1000\ 2000\ 3000$

D) $a_b_c = 1,000,000$

9. Which of the following is(are) valid statement(s) in python?

A) abc = 1,000,000

C) a,b,c = 1000, 2000, 3000



10. Which of the following is not equal to x^{16} in python?

A) x**4**4

B) x**16

C) x^16

D) (x**4)**4

Q11 to Q13 are subjective questions, answer them briefly

11. Differentiate between a list, tuple, set and dictionary.

List: Ordered sequence of objects and it's mutable.

Tuple: Ordered sequence of objects and it's immutable

Set: The elements are unique there are no duplicated elements.

Dictionary: Unordered sequence of items (key-value pairing)

12. Are strings mutable in python? Suppose you have a string "I+Love+Python", write a small code to replace '+' with space in python.

Strings are immutable

s = "I+Love+Python"

s= s.replace('+',' ')

13. What does the function **ord**() do in python? Explain with an example. Also, write down the function for getting the data type of a variable in python.

Return the Unicode point for one char. String

ord('A') it will return 65

type(7) it will return int which is the data type of number 7 as it's an integer number.

Q14 and Q15 are programming questions. Answer them in Jupyter Notebook.

- 14. Write a python program to solve a quadratic equation of the form ax^2+bx+c=0. Where a, b and c are to be taken by user input. Handle the erroneous input, such as 'a' should not be equal to 0.
- 15. Write a python program to find the sum of first 'n' natural numbers without using any loop. Ask users to input the value of 'n'.

