

WORKSHEET 2 PYTHON

1. Which of the following is not a core datatype in python?

- A) list
- B) struct
- C) tuple
- C) set

Ans(B)

2. Which of the following is an invalid variable name in python?

- A) _init_
- B) no_1
- C) 1_no
- D) _1

Ans(C)

3. Which one of the following is a keyword in python?

- A) in
- B) _init_
- C) on
- D) foo

Ans(A)

4. In which of the following manner are the operators of the same precedence executed in python?

- A) Left to Right
- B) BODMAS
- C) Right to Left
- D) None of these

Ans(B)

5. Arrange the following in decreasing order of the precedence when they appear in an expression in python?

i) Multiplication ii) Division iii) Exponential iv) Parentheses

- A) iii – iv – ii – i
- B) iii – iv – i – ii
- C) iv – iii – ii – i
- D) iii – ii – i – iv

Ans(C)

6. $(28//6)**3/3\%3 = ?$

- A) 7.1111...
- B) 0
- C) 0.3333...
- D) 1

Ans(C)

7. `a = input("Enter an integer")`. What will be the data type of a?

- A) int
- B) str
- C) float
- D) double

Ans(A)

Q8 and Q10 have multiple correct answers. Choose all the correct options to answer your question.

8. Which of the following statements are correct?

- A) Division and multiplication have same precedence in python
- B) Python's operators' precedence is based on PEDMAS
- C) Python's operators' precedence is based on VBODMAS
- D) In case of operators' having the same precedence, the one on the left side is executed first.

Ans()

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

- A) `abc = 1,000,000`
- B) `a b c = 1000 2000 3000`
- C) `a,b,c = 1000, 2000, 3000`
- D) `a_b_c = 1,000,000`

Ans(C)

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

A) x^{**4**4}

B) x^{**16}

C) x^{16}

D) $(x^{**4})^{**4}$

Ans(C,D)

Q11 to Q13 are subjective questions, answer them briefly

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

Ans. A list is a collection of ordered data. A tuple is an ordered collection of data. A set is an unordered collection. A dictionary is an unordered collection of data that stores data in key-value pairs.

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

Ans. Python strings are immutable in nature.

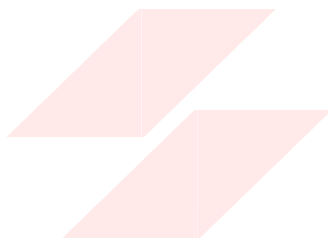
13. What does the function **ord()** do in python? Explain with an example. Also, write down the function for getting the data type of a variable in python.

Ans. The ord() function returns the number representing the unicode code of a specified character.

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'.



FLIP ROBO
