WORKSHEET 2

PYTHON

Q1 to Q8 have only one correct answer. Choose the correct option to answer your question.

- Q1. B) struct
- Q2. C) 1_no
- Q3. A) in
- Q4. B) BODMAS
- Q5. A) iii iv ii i
- Q6. C) 0.3333...
- Q7. A) x**4**4
- Q8. B) str

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

Q9.

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

Q10.

B) a b c = 100020003000

Q11 to Q13 are subjective questions, answer them briefly

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

Ans:-

LIST	SET	DICTIONARY	TUPLE
Lists is Mutable	Set is Immutable	Dictionary is Mutable	Tuple is Immutable
It is Ordered collection	It is Unordered	dictionaries are unordered	It is Ordered collection of
of items	collection of items	sets.	items
Items in list can be	Items in set cannot be	dictionaries are accessed	Items in tuple cannot be
replaced or changed	changed or replaced	via keys and not via their	changed or replaced
		position	

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Q12. Are strings mutable in python? Suppose you have a string "I+Love+Python", write a small code to replace '+' with space in python.

Ans: Strings are immutable.

```
string="I+Love+Python"
new_string = string.replace("+", " ")
print(new_string)

Output: I Love Python
```

Q13. What does the function **ord**() do in python? Explain with example. Also, write down the function for getting the datatype of a variable in python.

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

```
x=ord("c")
print(x)

Output:99

Datatype:
string="I+Love+Python"
new_string = string.replace("+", " ")
print(new_string)

type(new_string)

Output:
I Love Python
```

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

Q14. 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.

```
Separate python file
```

Str

Q15. Write a python program to find the sum of first 'n' natural numbers without using any loop. Ask user to input the value of 'n'.

```
Separate python file
```