

PYTHON – WORKSHEET 5

Q1 to Q10 have only one correct answer. Choose the correct option to answer your question.

1. Which of the following operators can be used to concatenate two lists?	
A) *	B) &
⇒ C)+	D) none of the above
2. Consider the below two statements and select the correct option accordingly	
i. List is an immutable data type like strings.	
ii. Lists are two dimenionsal da	
A) i-True, ii-False	B) i-True, ii-True
C) i-False, ii-False	D) i-False, ii-True
3. What will be the output of the following list comprehension?	
L=[x.upper() for x in ["abc","	
A) ["aBc"," Rahul"," nitIN"]	
C) ["ABc"," RAHul"," NItin"]	The state of the s
4. What will be the output of the following	
L = [x for x in [1,2,3,4,5,6] if x	x%2==0]
A) [2,3,4]	B) [1,3,4]
C) [4,5,6]	D) [2,4,6]
5. What will be the output of the following line of code?	
A = [2,3,45,6,8,9]	
B = A[1:4]	
C = [x for x in B if x%2 == 0]	
A) [3,45,6]	B) [45]
⇒C) [6]	(B) [45] (D) [45,6] (ines of code?
o. What will be the output of following lines of code:	
$a = \{1,4,6,8\}$	
$b = \{2,4,6,8\}$	
$c = \{1, 3, 5, 7\}$	
print(a.intersection(a.differenc	
A) {2,3}	B) {3,5}
	D) None of the above
7. What will be the output of the following lines of code?	
$A = \{1, 22, 22, 3\}$	
print(a)	
A) {1,22,22,3}	B) error
	D) None of the above
8. By which of the following ways you can access the set {1,2,3} in the following line of code? a=["asd",["d",{1,2,3},3],23]	
A) a[0][2]	B) a[1][0]
⇒ C) a[1][1]	D) None of the above
9. Which of the following is not a method	d of sets in python?
A) difference()	B) intersection()
C) symmetric_difference()	D) None of the above
10. Which of the following is true with respect to sets in python? (More Than One options may be correct.	
Mark all the correct options)	
A) sets are one-dimensional data structures	
B) no two elements of a set can be same	
C) sets are immutable	
D) All of the above.	



Q11 is subjective answer type question, answer it briefly.

11. List any two major differences between lists and sets in python.

List is an **ordered sequence** of elements whereas Set is a **distinct list** of elements which is unordered.

List is a type of ordered collection that maintains the elements in **insertion order** while Set is a type of unordered collection so elements are not maintained any order.

Q12 to Q15 are programming questions. Answer them in Jupyter Notebook.

- 12. write a python program to square the elements of a list by using list comprehension.
- 13. Write a pyhton program to drop duplicate elements from a list of numbers.
- 14. Take two sets of numbers and try implementing the set operations intersection, union, difference and symmetric_difference between them.
- 15. Write a python program to add the elements of a set.



