

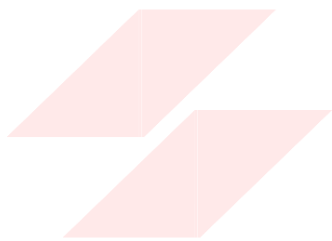
- Which of the following operators can be used to concatenate two lists?  
A) \*    B) &  
C) +    D) none of the above
- Consider the below two statements and select the correct option accordingly  
i. List is an immutable data type like strings.  
ii. Lists are two dimensional data-structures.  
A) i-True, ii-False                                B) i-True, ii-True  
C) i-False, ii-False                              D) i-False, ii-True
- What will be the output of the following list comprehension?  
`L=[x.upper() for x in ["abc","rahul","nitin"]]`  
A) ["aBc","Rahul","nitIN"]                    B) ["ABC","RAHUL","NITIN"]  
C) ["ABc","RAHuL","NItin"]                   D) None of the above
- What will be the output of the following list comprehension?  
`L = [x for x in [1,2,3,4,5,6] if x%2==0]`  
A) [2,3,4]    B) [1,3,4]  
C) [4,5,6]    D) [2,4,6]
- 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]     D) [45,6]
- 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.difference(b)))`  
A) {2,3}    B) {3,5}  
C) {1,7}    D) None of the above
- 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  
C) {1,3,22}                                        D) None of the above
- 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
- Which of the following is not a method of sets in python?  
A) difference()                                    B) intersection()  
C) symmetric\_difference()                    D) None of the above
- 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.

**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 python 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.



**FLIP ROBO**

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