

Python Comprehensions (Set, Dictionary, Generator) Interview Questions

1. What is Set comprehension in Python?
2. How to filter even numbers from a list using set comprehensions?
3. How to Find the squares of numbers from 1 to 10 using set comprehensions?
4. How to create new set that contains only the even numbers from the given sequence?
5. Generate a set of characters from a string using set comprehensions?
6. Generate a set of numbers with their squares if the number is even
7. What is Dictionary comprehension in Python?
8. Create a dictionary that contains keys from given sequence elements and values as a square values of given sequence elements?
9. How to Double each value in the dictionary using dictionary comprehensions?
Input data is : dict1 = {'a': 1, 'b': 2, 'c': 3, 'd': 4, 'e': 5}
Output data is : double_dict = { 'a': 2, 'b': 4, , 'c': 6, 'd': 8, 'e': 10 }
10. How to access all persons data whose age value less than 40 from a given sequence?
persons = [
 {'name' : 'Virat', 'age' : 35}, {'name' : "Sachin", 'age':50},
 {'name' : "Rohit", 'age' : 36}, {'name' : "Rahul", 'age':48}
]
11. What is Generator comprehension in Python?
12. How to filter even numbers from a sequence using generator comprehensions?
13. How to create new generator object that contains only the even numbers from the given sequence?
14. What is the difference between a list comprehension and a generator expression?