

Top 50 Most Important Python Interview Questions

1. What is the difference between list and tuple?
2. What are Mutable and Immutable datatypes in Python?
3. What is the difference between Python list and array?
4. Explain How Memory is managed in Python?
5. What is meant by Python Iterator and Generator? Explain with examples.
6. What is iter(), next(), yield keyword in Python?
7. How to reverse a string in python? Explain with code in various approaches like slicing or Recursion or using any in-built function.
8. What is Python Decorator? Explain with an example.
9. Difference between Module and Package in python.
10. Difference between Python 2 and Python 3.
11. Explain list comprehension and Dictionary Comprehension with Examples.
12. Why Break, Continue and Pass is used in Python?
13. What is Pickling and Unpickling in Python?
14. How Exception Handling is done in Python?
15. How to remove duplicates from a list?
16. What is “__init__”?
17. What is “self” keyword in Python?
18. What is *args and **kwargs in Python? Why they are used?
19. What is meant by __name__ == “__main__” in Python?
20. What is PEP8?
21. Difference between Deep copy and Shallow copy?
22. Explain map(), filter(), reduce() function in python with examples.
23. What Monkey Patching?
24. What is the difference between range() and xrange() in Python?
25. Explain PYTHONPATH.
26. What is lambda function? Give an example.
27. Why Python is called Dynamically Typed programming language?
28. Why Python is Interpreted Language?
29. Explain OOPs Concepts in Python?
30. What is Class, Object, Abstraction, Encapsulation, Polymorphism, Inheritance, Exception Handling in Python?

31. Why Global Keyword is used in Python?
32. What is Unit Testing?
33. Describe Magic methods or Dunder(Double Underscore) Methods in python.
34. What is Docstring?
35. Why do we use split() and join() method?
36. How we can use lambda function in map() / filter()? Give an example.
37. What is Python namespace?
38. What is GIL (Global Interpreter Lock)?
39. Difference between append() and extend() in python.
40. Why enumerate() is used in Python?
41. Difference between Iterator and Iterable.
42. What is Class method and Static method? What is the difference between them?
43. Why “with” is used while opening a file in python?
44. What is named tuple in python?
45. Difference between “iloc” and “loc” in python pandas.
46. What is “super” keyword?
47. Find the even numbers from a given list using for loop.
48. Convert a given list to string and vice-versa.
49. Difference between .py and .pyc file.
50. What do You understand by virtual environment on python?