

Python Interview Questions

1. What are the key features of python?
2. Differentiate between Java and Python.
3. Does python only interpretes and not compile? If No Justify
4. How is Python interpreted?
5. What are the different types of data types python provides
6. What is the difference between list and tuple?
7. How is memory managed in Python?
8. How do you check whether the two variables are pointing to the same object in Python?
9. Explain join() and split() in Python
10. What are python modules?
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12. What is a lambda function?
13. How do you copy an object in Python? Explain shallow copy and Deep copy.
14. Explain a few methods to implement Functionally Oriented Programming in Python. I.e map, filter, reduce
15. Explain zip method
16. How does break, continue and pass work?
17. What does [::-1] do
18. What are python iterators?
19. What are the generators in python?
20. What is the difference between range() and xrange() functions in Python?
21. What are global, protected and private attributes in Python?
22. What is pickling and unpickling?
23. What is the difference between Python Arrays and lists?
24. What happens in the background when you run a Python file?
25. When do you choose a list over a tuple?
26. How do you convert a list of integers to a comma separated string?
`a = [1,2,3,4,5,6,7,8]`
`>>> numbers = ','.join(str(i) for i in a)`
27. What does *args and **kwargs mean?
28. Differentiate between the append() and extend() methods of a list.
29. How can the ternary operators be used in python?
30. What advantages do NumPy arrays offer over (nested) Python lists?
31. Name some standard Python errors you know?

32. How Python supports encapsulation with respect to functions?
33. What is PEP8?
34. What mode is used for both writing and reading in binary format in file.?
35. How is Multithreading achieved in Python?
36. What is the process of compilation and linking in python?
37. Does python support multiple inheritance?
38. Define encapsulation in Python?
39. What is Polymorphism in Python?
40. How do you do data abstraction in Python?
41. How to create an empty class in Python?
42. Write a program in Python to execute the Bubble sort algorithm.
43. Write a one-liner that will count the number of capital letters in a file. Your code should work even if the file is too big to fit in memory.
44. Write a sorting algorithm for a numerical dataset in Python.
45. Explain what Flask is and its benefits?