

## **Python Interview Questions**

- Q1. What is the difference between list and tuples in Python?
- Q2. What are the key features of Python?
- Q3. What type of language is python? Programming or scripting?
- Q4. Python an interpreted language. Explain.
- Q5. What is pep 8?
- Q6. What are the benefits of using Python? are
- Q7. What Python namespaces?
- Q8. What are decorators in Python?
- Q9. What are Dict and List comprehensions?
- Q10. What are the common built-in data types in Python? is the
- Q11. What difference between .py and .pyc files? is slicing in
- Q12. What Python?
- Q13. What are Keywords in Python?
- Q14. What are Literals in Python and explain about different Literals
- Q15. How to combine dataframes in pandas?
- Q16. What are the new features added in Python 3.9.0.0 version?
- Q17. How is memory managed in Python?
- Q18. What is namespace in Python?
- Q19. What is PYTHONPATH?
- Q20. What are python modules? some commonly used built-in modules in Python?
- Q21. What are local variables and global variables in Python?
- Q22. Is python case sensitive?
- Q23. What is type conversion in Python?

- Q24. How to install Python on Windows and set path variable?
- Q25. Is indentation required in python?
- Q26. What is the difference between Python Arrays and lists?
- Q27. What are functions in Python?
- Q28. What is `__init__`?
- Q29. What is a lambda function?
- Q30. What is `self` in Python?
- Q31. How does `break`, `continue` and `pass` work?
- Q32. What does `[::-1]` do?
- Q33. How can you randomize the items of a list in place in Python?
- Q34. What are python iterators?
- Q35. How can you generate random numbers in Python?
- Q36. What is the difference between `range` &  `xrange`?
- Q37. How do you write comments in python?
- Q38. What is pickling and unpickling?
- Q39. What are the generators in python?
- Q40. How will you capitalize the first letter of string? you convert a
- Q41. How will string to all lowercase?
- Q42. How to comment multiple lines in python? are
- Q43. What docstrings in Python?
- Q44. What is the purpose of `'is'`, `'not'` and `'in'` operators?
- Q45. What is the usage of `help()` and `dir()` function in Python?
- Q46. Whenever Python exits, why isn't all the memory de-allocated?
- Q47. What is a dictionary in Python?
- Q48. How can the ternary operators be used in python?

**Q49. What does this mean: \*args, \*\*kwargs? And why would we use it?**

**Q50. What does len() do?**

**Q51. Explain split(), sub(), subn() methods of "re" module in Python.**

**Q52. What are negative indexes and why are they used?**

**Q53. What are Python packages?**

**Q54. How can files be deleted in Python? Q55. What are the built-in types of python?**

**Q56. What advantages do NumPy arrays offer over Python (nested) lists?**

**Q57. How to add values to a python array? How to**

**Q58. remove values to a python array? Does Python**

**Q59. have OOps concepts?**

**Q60. What is the difference between deep and shallow copy?**

**Q61. How is Multithreading achieved in Python?**

**Q62. What is the process of compilation and linking in python?**

**Q63. What are Python libraries? Name a few of them.**

**Q64. What is split used for?**

**Q65. How to import modules in python?**

**Q66. Explain Inheritance in Python with an example. classes**

**Q67. How are created in Python?**

**Q68. What is monkey patching in Python?**

**Q69. Does python support multiple inheritance? is**

**Q70. What Polymorphism in Python?**

**Q71. Define encapsulation in Python?**

**Q72. How do you do data abstraction in Python?**

**Q73. Does python make use of access specifiers?**

**Q74. How to create an empty class in Python?**



**Q75. What does an object() do?**

**Q76. Write a program in Python to execute the Bubble sort algorithm.**

**Q77. Write a program in Python to produce Star triangle.**

**Q78. Write a program to produce Fibonacci series in Python.**

**Q79. Write a program in Python to check if a number is prime.**

**Q80. Write a program in Python to check if a sequence is Palindrome.**

**Q81. Write a sorting algorithm for Python. a numerical dataset in**

**Q82. Explain what Flask is and its benefits?**

**Q83. Django better than Flask?**

**Q84. Mention the differences between Django, Pyramid and Flask.**

**Q85. Discuss Django architecture.**

**Q86. Explain how you can set up the Database in Django.**

**Q87. Give an example how you write a VIEW in Django?**

**Q88. Mention what the Django templates consist of.**

**Q89. Explain the use of session in Django framework?**

**Q90. List out the inheritance styles in Django. What is**

**Q91. map function in Python?**

**Q92. Is python numpy better than lists?**

**Q93. How to get indices of N maximum values in a array? NumPy**

**Q94. How do you calculate percentiles with Python/ NumPy? What is**

**Q95. the difference between NumPy and SciPy?**

**Q96. How do you make 3D plots/visualizations using NumPy/SciPy?**