

## **PYTHON INTERVIEW QUESTIONS**

### **CORE PYTHON**

1. Can you explain important features of Python?
2. What is a frozen binary?
3. What is the role of PVM?
4. What is garbage collector?
5. Why Python is called interpreted language?
6. Why variables are not declared in Python?
7. How can you know the datatype of a variable?
8. What is the difference between C and Python?
9. What is the difference between Java and Python?
10. What is a sequence?
11. What are various datatypes in Python?
12. What is the difference between list and tuple?
13. What is the difference between bytes and bytearray?
14. What is the difference between set and frozenset?
15. What is indexing?
16. What is the difference between list and array?
17. Explain about slicing? How can you do reverse slicing?
18. Explain about assert statement?
19. What is a function? What is its use?
20. What is the difference between local and global variable?
21. What are mutable objects and immutable objects?
22. Why strings are created as immutable objects?
23. What are keyword arguments? How they are used?
24. What is the use of a star (\*) before an argument in the function?
25. What is a decorator? Can you give examples for already available decorators in python?
26. What is a lambda? What is its advantage?
27. What is the difference between normal function and lambda?
28. What is the difference between package and module?
29. Explain the ways of importing a module in Python?
30. What is the use of arange() ?
31. How can you know the number of elements in an array?
32. What is the difference between reshape() and flatten() ?
33. In numpy, all arrays are internally objects of which class?
34. Which methods are used to find matrix transpose? (HINT: transpose(), T)
35. What is list comprehension? What is its advantage?
36. What is the difference between script and program? Will Python come under script or program?

### **ADV PYTHON**

37. How can you create a class and object to it, explain.
38. What is the use of self variable?
39. What is the difference between default constructor and parameterized constructor?
40. When a constructor is called?
41. What is the difference between instance variable and class variable?
42. What is the difference between class methods and static methods?
43. What is name mangling?
44. What are dunder / double underscores / magic methods in Python?

45. Can you inherit a class from another class? How?
46. What is duck typing?
47. What is the procedure of creating abstract class?
48. What is the difference between abstract class and interface?
49. How can you override a method?
50. All exceptions are sub classes of which class?
51. What is regular expression?
52. What is the difference between search() and findall() ?
53. What is the use of ^, \$, \*, +, ?, \d and \w in regular expressions?
54. How can you display system date and time?
55. What is the difference between Series and DataFrame?
56. What is the difference between iloc() and loc() ?
57. How can you create DataFrame from a .csv file and excel files?
58. When the DataFrame in the memory is modified, will it modify the data in the original file from where the DataFrame is created?
59. How can view first 5 rows and last 5 rows in a DataFrame?
60. How can you sort the rows of a DataFrame into ascending order?
61. How can you remove NaN values found in the data?
62. What the attribute 'inplace=True' does in a DataFrame?
63. Why do we use matplotlib?
64. With what packages you worked in Python? (Hint: numpy, re, tkinter, threading, socket, pandas, matplotlib, etc.)

**All the best for your career.**

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