

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 the difference between exception and error?
52. How can you handle multiple exceptions?
53. What is the difference between text file and binary file?
54. What is context manager? Can you give examples? (Hint: with block, Lock, ZipFile)
55. What is pickle? Which method is used in pickle?
56. What is unpickle? Which method is used in unpickle?
57. Which methods are used in random accessing of files? (Hint: tell(), seek())
58. What is a mmap file? When it is required?
59. What is regular expression?
60. What is the difference between search() and findall() ?
61. What is the use of ^, \$, *, +, ?, \d and \w in regular expressions?
62. How can you display system date and time?
63. What are the different types of multi tasking?
64. What is thread synchronization? How can you do it?
65. Explain the famous Producer-Consumer problem in threads.
66. What is the difference between Lock and Semaphore?
67. What is thread deadlock? How can you avoid it?
68. What is the difference between notify() and notify_all() ?
69. What is a widget?
70. What is the difference between root window and frame?
71. What is the use of mainloop() method?
72. What is socket / socket programming?
73. How can you create a socket?
74. What is port / port number?
75. What is URL?
76. What is connection object?
77. What is cursor?
78. What is the difference between fetchone() and fetchall() ?
79. What is database connector / driver?
80. What is JSON? What is its importance?
81. What is the difference between Series and DataFrame?
82. What is the difference between iloc() and loc() ?
83. How can you create DataFrame from a .csv file and excel files?
84. When the DataFrame in the memory is modified, will it modify the data in the original file from where the DataFrame is created?
85. How can view first 5 rows and last 5 rows in a DataFrame?
86. How can you sort the rows of a DataFrame into ascending order?
87. How can you remove NaN values found in the data?
88. What the attribute 'inplace=True' does in a DataFrame?
89. Why do we use matplotlib?
90. With what packages you worked in Python? (Hint: numpy, re, tkinter, threading, socket, pandas, matplotlib, etc.)

All the best for your career.

Nageswarao Datatechs, Phones: 7095447721, 95333 44772.