

1. Why python is known as the interpreted language
2. Why python is slow as compared to other languages. (C, C++)
3. How python assigns memory to a variable.
4. What is the use case of id functions?
5. What are reserved words in python?
6. REPL
7. Is python good for fast prototyping? If yes then how?
8. Identifiers?
9. Why is python called a dynamically typed language?
10. What is the default memory size allocated to int, float, str, and other data types?
11. What are built-in classes in python?
12. What are bitwise operators in python?
13. discuss operator precedence?
14. difference between module package and library?
15. What is type linting, linting in python?
16. What is PEP8?
17. What are inbuilt data structures in python?
18. What is the difference between Tuple and list?
19. How is the list different then numpy array or array in c++ ?
20. What is the difference between "is" and "=="?
21. What is an assert statement?
22. What is mutability?
23. What is a python generator?
24. What is the difference between yield and return keyword?
25. What is the zip method?
26. What is enumerate in python?
27. What is the use of "isinstance" in python?
28. What is the difference between break and continue?

29. What are common in built functions?
30. What is the data type of user input that you take from input()?
31. What is a context manager?
32. Create a custom context manager without using contextlib?
33. Common Exception types?
34. Create a custom exception?
35. How to take care paths in python to make it so independent? HINT: windows paths vs linux paths ?
36. What are the various libraries used for testing a python application?
37. How to copy/move files from one directory to another directory using python?
38. What are namedtuples?
39. What are dataclasses?
40. What is pickling and unpickling?
41. How to delete a file using python?
42. give one use case of glob ?
43. What is *args and **kwargs?
44. Write a function minmax() which will take variable arguments and it will return min and max of those input sequences?
45. Write a lambda function to take one positive input N and return sum of squares of no. less than N
46. Write a list comprehension to return the following sequence -
[1, 4, 9, 16,]
- 47.

```
```python
scores_per_ball = [[1,2,5,6,7,4],[0,2,4,5,1],[6,6,6]]
player_name = ["Khohli", "Dhoni", "Bumrah"]
...

```

Return the player name with the highest strike rate?

48. Write a function which takes two lists as an input and return Mean Absolute Error?

49. Write a function to create a transpose of a matrix? without using numpy or any third party library?

50. Does python have switch cases?