

## Tech Mahindra - Backend Developer

### Interview Process

- Aptitude Test
- Psychometric Test
- Essay Writing
- Technical Interview
- HR Interview

### Interview Questions

1. What are HTML Forms, CSS Links, and JS Validation?
2. What are the four pillars of OOPs? Explain it
3. What are the differences between Abstraction and Encapsulation?
4. Is there any way to achieve compile-time polymorphism?
5. Write a program to print something without using the main function.
6. Write a program to check whether a string is a valid anagram or not.
7. Can you explain the difference between `#include <file>` and `#include "file"`?
8. Name some object-oriented programming languages.
9. What is structured programming?
10. What is function overloading?
11. State some advantages of a Database Management System.
12. What is a Java Virtual Machine?
13. State some advantages of Java Packages.
14. Compare between Java and Python.
15. What is Python?
16. What are the key features of Python?
17. What is the purpose of PYTHONPATH environment variable?
18. Which data types are supported in Python?
19. How is memory managed in Python?
20. Explain Inheritance in Python with an example.
21. What are the two major loop statements?
22. What type of language is Python? Programming or Scripting?
23. Define generators in Python.
24. How do we reverse a list in Python?
25. Write a program to check whether the given number is prime or not.
26. What is a dictionary in Python?
27. Define pickling and unpickling in Python.
28. What is a map function in Python?
29. Is indentation optional in Python?
30. How are Python arrays and Python lists different from each other?
31. What is `__init__` in Python?



32. What is the use of `manage.py`?
33. Do multiple inheritances are supported in Python?
34. How can we create an empty class in Python?