Capgemini - Backend Developer

Interview Process

- Assessment test online
- Technical Assessment Round
- An interview with Human Resources

Interview Questions

1. What are Primary and Secondary Key?
2. Write a program to find the sum of N natural numbers.
3. Explain SDLC.
4. What are the advantages of OOPS?
5. List the different storage class specifiers in C.
6. Illustrate public static void main(String args[]) in Java.
7. Write the programming code to swap two numbers without using the third variable.
8. What is range() in Python?
9. What distinguishes an object from a class in C++?
10. Why are Java Strings immutable in nature?
11. What are final, finally and finalize keywords in Java?
12. How does dynamic host configuration protocol help in network management?
13. What is an anonymous File Transfer Protocol (FTP)?
14. Explain the difference between Dataset.copy() and Dataset.clone().
15. Why should you utilize a database management system (DBMS)?
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17. Explain parallel testing in Selenium.
18. How do you write a Pseudocode?
19. Differentiate between xrange and range in Python.
20. How do you set up the test environment of API?
21. Why are Java Strings immutable in nature?
22. What are the disadvantages of using an array for Queue implementation?
23. What is Mule Data Integrator?
24. What is the difference between malloc() and new()?
25. How is memory managed in Python?
26. Which structure is used for connecting the C program and operating system?
27. What is the difference between Mule 3 and Mule 4?
28. What are the benefits of implementing a database management system (DBMS)? Give an overview of its advantages.
29. In a database, why is normalisation necessary?
30. How do UNION and UNION ALL differ?
31. What is the difference between Dataset.clone() and Dataset. copy()?
32. What is the difference between getch() and getche()?

33. Do you have any knowledge of the #pragma directive?
34. What method connects the operating system to the C program?
35. Explain shallow and deep copy in the context of Java.
36. How is memory managed in Python?
37. In Python, differentiate between range and xrange.
38. What are the drawbacks of using arrays to implement queues?
39. Define iterators in Python.
40. How does a function return values?
41. What are the key features of Python?
42. What is the difference between a list and tuple in Python?
43. Define slicing in Python.
44. What are the two major loop statements?
45. How can Python be an interpreted language?
46. What happens when a function doesn't have a return statement? Is this valid?
47. Define package in Python.
48. How can we make a Python script executable on Unix?
49. Which command is used to delete files in Python?
50. Define pickling and unpickling in Python.
51. What is a boolean in Python?
52. What is Python String format and Python String replace?
53. What are the functions in Python?
54. Define the term lambda.
55. Define self in Python.
56. How do we convert the string to lowercase?
57. How can we debug a Python program?
58. What is the software development lifecycle (SDLC)?
59. What is the difference between a primary key and a unique key?
60. What is the difference between DROP, DELETE, and TRUNCATE commands?
61. Why is normalization required in a database?
62. Plain equal to (==) and assignment operator (=).
63. What is dynamic memory allocation?
64. Define encapsulation.
65. What is the difference between deep copy and shallow copy in Java?
66. What is a banker's algorithm?
67. Write the code for the bubble sort algorithm in Java.
68. What is anonymous FTP?
69. What is the CopyOfRange() method in Java?
70. What are access specifiers in Java?
71. Write a program to find the sum of N natural numbers in C.
72. Explain new() and malloc() methods in C++
73. Write a program to find the Fibonacci series up to n in Python.
74. Write a program to find prime factors of a number in Python.
75. Why is Python needed?
76. Where is it used in real life?

77. What are the key features of Python?
78. How is memory managed in Python?
79. Explain the namespace in Python.