

HSBC Technical Interview Questions

1. What is the difference between abstract class and interface?
2. What are the new features added in Java version 8?
3. HAS-A relationship and IS-A relationship.
4. Write a program to establish connection between Java program and database (JDBC).
5. What is Diamond Problem in Java?
6. Hadoop Architecture.
7. What is the process of installing Java?
8. What is ResultSet in Java?
9. Exception Handling in Java
10. Multi-Threading in Java.
11. What is static variable in Java?
12. How are Java objects stored in memory?
13. What is a package in Java? What are various advantages of packages.
14. What are the concepts of OOPs that are available in Java?
15. Differentiate between the constructors and methods in Java?
16. What is Java String Pool?
17. What is constructor chaining in Java?
18. What is runtime polymorphism or dynamic method dispatch?
19. What happens if you remove static modifier from the main method?
20. What is "this" keyword in java?
21. Which class is the superclass for every class?
22. What is "super" keyword in java?
23. What is the difference between 'throw' and 'throws' in Java Exception Handling?
24. Can we overload main() method?
25. Why is Java called the 'Platform Independent Programming Language'?
26. Explain JDK, JRE and JVM?
27. Explain public static void main(String args[]) in Java
28. Why pointers are not used in Java?
29. What is Object Oriented Programming? Is Java 100% Object Oriented? Why?
30. What is the difference between a local variable and an instance variable?
31. Why Java Strings are immutable in nature?
32. What is the difference between an array and an array list?
33. Can you override a private or static method in Java?
34. What is object cloning in Java?
35. What is JIT compiler?
36. Explain different types of Polymorphism with example.

37. What if I write static public void instead of public static void?
38. Can you make a constructor final?
39. Difference between DDL, DML and DCL in DBMS.
40. What is the difference between StringBuffer and String?
41. Deadlocks in Operating Systems.
42. Basic SQL Queries (Example: Queries to find highest, second highest salary or number of persons in x department having salary more than average of Y department.)
43. What are getter and setter class and write one in java?
44. Difference between Linux and Ubuntu.
45. How will you remove duplicate data from database that do not have a primary key?
46. Your server limit is 10000 and the hacker sends in 1000000 bogus requests how will you handle such situation. (DDOS Attack Probable solution is using proxy server and/or firewall)
47. Difference between final, finally and finalize keywords.
48. The basics of software engineering like DSA, SDLC, GIT, OOPs, and Cloud computing.
49. Map and Reduce in Python.
50. Composition vs Aggregation vs Association.
51. Synchronization in threads
52. Call by value, address and reference. Which C supports(value and Address).
53. Difference between struct and class.
54. Normalisation and normalizing a dataset.
55. DBMS concepts and ACID property.
56. Inner classes and Virtual functions.
57. Abstraction vs Interface
58. Difference between JDBC and ODBC.

*Questions from projects with complete description (dataset, result, language, algorithms, implementation) and the latest technologies used in the projects.

HSBC Programming Interview Questions

1. Reversing a linked list.
2. Kth node from the end of a linked list.
3. Sort a 2D array row wise.
4. Deletion of alternate nodes in a linked list.
5. Remove duplicate elements in an array.
6. Detection of loop in a linked list.

7. Find unit digit of x raised to power y.
8. Minimum element in stack in $O(1)$ time.
9. Given two strings s1 and s2. Check if s1 is a rotated version of s2.
10. Intersection point of two linked list.
11. Check if two strings are anagram or not.
12. Number of island problem.
13. Partition a set into two subsets such that the difference of subset sums is minimum.
14. Minimum time required to rot all oranges.
15. Sum of elements of a linked list.
16. Print Spiral matrix.
17. Given a string, count the number of consonants, vowels and '?', '!', '*''. The string consists of only lower-case characters.
18. Russian Peasant problem.
19. Minimum time required to rot all oranges -
<https://www.geeksforgeeks.org/minimum-time-required-so-that-all-oranges-become-rotten/>
20. Given a 2D matrix containing only 0s and 1s. If a cell contains 1 make that row and column as 1.
21. Rat in a Maze problem.

HSBC HR Interview Questions

1. Tell me about yourself
2. Most difficult situation you have faced in life.
3. What is your biggest achievement?
4. Why do you want to join HSBC?
5. Where do you see yourself in 3/5 years from now?
6. What do you know about HSBC?
7. What are your strengths and weaknesses?
8. What challenges did you face while doing projects?
9. Have you worked in teams, what are the challenges you have faced?
10. Is a group project better than working alone?
11. How will you be an asset to HSBC?
12. What do you know about technologies like IOT, cyber security, blockchain, cloud, devops, ML-AI, bigdata, etc?
13. How will you deal with an unresponsive teammate?
14. What does stress mean to you? What is your take on stress and pressure?
15. What changes will you bring to HSBC after joining as its employee?
16. How was your internship and what skills did you acquire from it?

17. Rate yourself in terms of your integrity and why do you think so?
18. What other interviews did you give and why you were not selected in them?
19. Are you willing to relocate?
20. How will you lead a team? What do you think should be the qualities of a good leader?
21. Situation: You are in a team of 5 and 1 of them has a conflicting thought upon a project. What will you do?
22. What according to you is failure? Have you ever failed?
23. Situation: 10 people say that a person X is annoying and you have to share a room with him. What will you do?
24. Tell me an instance where you had to go against your ethics and principles.
25. If background is different than CSE (for ex ECE). Why choose software development over ECE?
26. If you are given a project with a deadline and you know that you are unable to complete it before that, will you compromise with the quality and stick to a deadline.
What will be your reaction to this situation?