**Darshan Wawale FCI- L1 30th Nov 2024**

1. Briefly introduce yourself.2. Can you explain your recent project and its architecture?3. How did you handle challenges or specific scenarios in your project?4. What are the key features introduced in Java 8?5. What is a functional interface, and what is its purpose?6. If an interface has two methods, can it still be considered a functional interface?7. How can you ensure that an interface remains a functional interface and no additional methods are added to it?8. Create a functional interface to check if a given string is a palindrome, and provide its implementation using a lambda expression.9. Given a list of strings, how would you check how many are palindromes using the logic from the functional interface?10. Write your own logic using a for loop to reverse the words in the string:Input: "My first interview experience"Output: "experience interview first My"(Do not use inbuilt methods or libraries.)11. Which databases have you worked with?12. What is projection in MongoDB?13. What is a capped collection in MongoDB?14. Write a MongoDB query to find the employee with the highest salary in each department.15. Write an SQL query to find the employee with the highest salary in each department.16.What is exception handling?17. How did you handle exceptions in your recent project?18. What is the execution flow of try, catch, and finally blocks?19. If we throw a new exception in the catch block, will it go to the global exception handler? When does the control go to the finally block in such a case?20. If we write code after the finally block, will it execute when an exception occurs?21. Have you worked on Spring Boot?22. How does transaction management work in Spring Boot?23. Suppose one method is fetching data and calling another method to process the fetched data. If all this needs to be in a single transaction, how would it work using @Transactional? Do you need to make any additional configurations for this?

**Aniket Suryawanshi FCI (L-1) 29th Nov 2024**

1. How do you handle a situation when a client changes the requirement?2. If a code is in production and the client wants to change something, how will you proceed?3. Give me the answer for how to explain to the interviewer when a client asks for a change?4. How to find the first repeated character in a stream?5. Simple program to find the first repeated character in a stream?6. Find the first repeated character using streams?7. Any other solution to find the first repeated character?8. How to find the first repeated character using a for loop?9. How to find the first repeated character without using a nested for loop?10. How to sort elements based on the highest frequency of characters in a string?11. Simple solution to sort elements based on frequency?12. Sort characters in a string by frequency, and handle ties by their order of appearance?13. How to sort characters in a string by frequency in descending order?14. Use LinkedHashSet to solve the sorting by frequency problem?15. Simple solution for sorting by frequency in a string?16. Sort characters by frequency and display the frequency along with the character (e.g., t2e2h2r1)?17. How does @Primary and @Qualifier work in Spring?18. Can we have two databases in the same project? How to configure that?19. How to handle a scenario where a transaction goes through services A, B, and C, and service C is down?20. How will you handle a situation where service C is down in a transaction involving A, B, and C?21. Can you implement custom retry logic for handling service failure?22. What is Global Exception Handling in Spring?23. How to handle exceptions globally and provide a specific response?24. How to handle a situation where a duplicate record is inserted into a database, and you need to keep the first one while removing others?25. How to delete duplicate records from an employee table while preserving the first occurrence based on insertion order?26. What should be done when the table is already defined, and you need to ensure there are no duplicate records based on a specific column?

**Sivasakthivel K FCI (L-1) 29th Nov 2024**

1.Introduce yourself.2.What are the technologies you have worked with?3.Remove the elements from the first list based on the indexes in the second list:List<Integer> firstList = Stream.of(3, 7, 1, 5, 9, 4, 2, 8, 10, 6).collect(Collectors.toList());List<Integer> secondList = Stream.of(0, 9, 5).collect(Collectors.toList());Output: 7, 1, 5, 9, 2, 8, 104. Why do we use lists? What is their purpose, and how do they work?5. Analyze the following code: public void update() { final String s = "Hello"; s.concat("world"); System.out.println(s); } What is the output of this program? Modify the code to produce a concatenated result.6. Analyze the following code:public void display(String str) { System.out.println("ABC");}public void display(StringBuffer str) { System.out.println("OBJ");}What is the output for the following calls? Why?7. Analyze the following code:public void display(String str) { System.out.println("ABC");}public void display(Object str) { System.out.println("OBJ");}What is the output for the following calls? Why?8. Two different objects are producing the same hash code. Why does this happen?9.If we override the hashCode method, is it mandatory to override the equals method? Why or why not?