**Aurionpro solutions ltd**

**Date:** 24-04-2024

**Years of Experience:** 4

* **1) What is encapsulation and what is its use?**
* **2) How do you implement polymorphism in your project?**
* **3) Explain the concepts of 'isA' and 'HasA' relationship.**
* **4) Explain the internals of HashMap.**
* **5) Do you know about binary trees?**
* **6) What are equals() and hashCode() methods used for?**
* **7) Is the insertion order preserved in HashMap? If not, how can you preserve it?**
* **8) Is HashMap thread-safe?**
* **9) If you want thread-safety without losing performance, what would you do?**
* **10) Why is ConcurrentHashMap thread-safe, and how can you ensure it?**
* **11) If you don't want to use ConcurrentHashMap but need thread-safety, what alternatives would you consider?**
* **12) Explain the difference between a thread and a process.**
* **13) What is a DispatcherServlet?**
* **14) When would you choose a Controller over a RestController?**
* **15) If you enter a username and password and click on login, what will be the flow of events?**
* **16) What is a Session Factory and session in the context of web development?**

**Mphasis**

**Date:** 6/4/2024

**Years of Experience:** 4

* **Features of Java 8**
* **Metaspace in Java 8**
* **Try with resources**
* **Can we write multiple exceptions in a catch block?**
* **Super keyword**
* **What is Exceptions propagation?**
* **Will the finally block always get executed? Is there any way to stop that?**
* **What is the Executor framework?**
* **What is fail-safe and fail-fast?**
* **What is a profile?**
* **Occurrence count using string utility method**
* **What is Spring DevTool used for?**
* **CSRF in Spring**
* **Can we run a cron job in Spring?**
* **How to call a third-party API?**
* **CORS in Spring Boot**

**Capgemini**

**Date:** 5/4/2024

**Years of Experience:** 4

* **What is use of @data**
* **What is profile**
* **What is primary key and unique key**
* **How to handle custom exception...**
* **Can we change return type of overriding..**
* **Can we override static and private method**
* **If no so why?**
* **Factor design pattern**
* **Print sum of even number in Java 8**
* **Swapping two variables without using third variable**
* **What is Hibernate**
* **What is session Factor how to write it...**

**Saksoft**

**Date:** 3/4/2024

**Years of Experience:** 4

* **Saga design pattern**
* **Difference between CRUD and JPA**
* **Global exception handling**
* **What is transient**
* **Print prime numbers from 1 to 100**
* **Singleton pattern**
* **How to communicate from one microservice to another**
* **Microservice architecture**

**Capgemini**

**Date:** 27/4/2024

**Years of Experience:** 4

* **What is singleton**
* **How to write singleton class**
* **What is immutable**
* **How to write Java8**
* **Pathparam and query param**
* **Difference between POST and PUT**
* **Some senior base questions**
* **RabbitMQ**
* **CI/CD**
* **Microservices**
* **String a = new String("abc"); String b = new String("abc"); How many objects will get created?**
* **Method reference**
* **String s = "abc"; String b = "abc"; How many objects created?**
* **If I have try-catch-finally and all are return-1, what will get returned?**

**Accolite Mumbai**

**Date:** 27/4/2024

**Years of Experience:** 4

* **Executor framework**
* **Reentrantlock**
* **Lock interface**
* **What are the ways to request JVM to run GC?**
* **Callable and Runnable**
* **Parallel stream**
* **Java8**
* **Autoboxing and unboxing**
* **Connection pool**

**Accolite Mumbai**

**Date:** 27/4/2024

**Years of Experience:** 4

* **1) What is encapsulation and what is its use?**
* **2) Polymorphism: How do you implement it in your project?**
* **3) What is 'isA' and 'HasA' relationship?**
* **4) Internal workings of HashMap**
* **5) Do you know about binary trees?**
* **6) Equal and hashCode methods**
* **7) Is insertion order preserved in HashMap? If not, how can you preserve it?**
* **8) Is HashMap thread-safe?**
* **9) If you want thread safety without losing performance and increasing time, what would you do?**
* **10) Why is ConcurrentHashMap thread-safe, and how can you say that it is thread-safe?**
* **11) If you don't want to use ConcurrentHashMap but need thread safety, what alternatives would you consider?**
* **12) Thread and process**
* **13) DispatcherServlet**
* **14) When do we use a controller and when do we use a RestController?**
* **15) If I enter a username and password and click on login, what will happen? Explain the flow.**
* **16) What is a Session Factory and Session?**

**Volkswagen Group Technology Solutions India**

**Date:** 27/4/2024

**Years of Experience:** 4

* **1) What are the main disadvantages of microservices?**
* **2) What security measures are implemented in your application?**
* **3) Suppose we have an Angular application, how do you authenticate and authorize admin users? How do we deal with that?**
* **4) How does user logging happen in this application journey?**
* **5) Have you worked on any other JWT type authorization and authentication?**
* **6) Have you worked with abstract classes and interfaces?**
* **7) Why do we use interfaces and why do we use abstract classes?**
* **8) When do we use abstract classes and when do we use interfaces?**
* **9) Can we create an object of an abstract class?**
* **10) Can an abstract class have a constructor? Why are objects not created for abstract classes?**
* **11) Can we create an object of an interface?**
* **12) Can we instantiate interfaces?**
* **13) What is an abstract method?**
* **14) Can we have methods with a body in an abstract class?**
* **15) In the case of an interface, can we have methods with a body?**
* **16) Can we use the final keyword in an abstract method?**
* **17) Suppose if we are using 'final' at the class level, why are we not creating child classes?**
* **18) How many ways are there to create a thread? Which one is better?**
* **19) How is a class different from an interface?**
* **20) How do we start a thread?**
* **21) Do you know what a stack is?**
* **22) What are the data structures that are used in regular development?**
* **23) Can you design a stack?**
* **24) Can you design a hashmap?**
* **25) Suppose we have a list and want to fetch the database. Which data structure is preferable?**
* **26) If we have a hashmap with two objects, key 'atul' and value '102', and we want to store both key-value pairs, how do we do that?**
* **27) When we are creating the REST API, how do we authenticate the incoming data?**
* **28) Let's say we have a POST API with a request body. How do you authenticate the body? How do you validate the body received in the controller layer?**
* **29) What are the ways and practices you follow in regular development?**
* **30) What is the purpose of the @Autowired annotation?**
* **31) Can we do linking and joining with any other @Autowired?**
* **32) What is dependency injection?**
* **33) How do you use 'having' and 'group by' in SQL?**
* **34) Can you explain 'join' in SQL?**

**1st Interview Hyderabad**

**Date:** 27/4/2024

**Years of Experience:** 4

* **What are the types of classloader?**
* **What is the 'transient' keyword?**
* **What are the advantages of Hibernate?**
* **What are the internal workings of HashMap?**
* **Explain failsafe and failfast.**
* **How to create a thread? How many ways are there to create a thread? Which are preferable and why?**
* **What are the types of threads? Explain user thread, daemon thread, foreground thread, and background thread.**
* **If you override the run method and start the thread without using the start method, what will happen?**
* **What is a thread scheduler?**
* **What is circular reference, and what are its uses?**
* **What are Spring Boot annotations?**
* **When do we use interfaces?**
* **What is abstraction?**
* **Explain method overriding and method overloading. When do we use them?**
* **What is a functional interface?**
* **What is a marker interface, why do we use it, and how is it empty? Can we use two functional interfaces?**
* **Do you encounter concurrent exceptions? How do you solve them?**
* **Explain the public static void main(String[] args) method. Why do we use it, and how does it work internally?**
* **What is JDBC?**
* **Explain the interthread communication process.**
* **What is Comparable and Comparator?**
* **What is a BeanFactory and ApplicationContext?**
* **What is circular injection, and when do we use it?**

**Interview Pune**

**Date:** 27/4/2024

**Years of Experience:** 4

* **Feature of Java 8**
* **Name some functional interfaces**
* **What do predicates do and what is their return type?**
* **Explain Consumer and Supplier interfaces**
* **What is a default interface method and why is it used?**
* **Can we override default methods?**
* **What is the Object class in Java?**
* **Explain Comparator and Comparable interfaces in Java**

**Equifax Interview Pune**

**Date:** 27/4/2024

**Years of Experience:** 4

* **What are the features of Java 8?**
* **What is the Stream API in Java 8?**
* **Explain the architecture of microservices.**
* **Where is this project deployed? On cloud or any other platform like Microsoft Azure?**
* **What are the components of Microsoft Azure?**
* **How do multiple microservices communicate with each other?**
* **Is RabbitMQ synchronous or asynchronous?**
* **Which is better, synchronous or asynchronous communication?**
* **Is asynchronous always better or not?**
* **If we want to create one endpoint, what components are needed?**
* **What is the difference between POST and PATCH?**
* **How do you connect with a database?**
* **Do you have knowledge of UI parts?**
* **What annotations are used in Spring Boot?**
* **Explain how to find the max age of students in a list using Java 8.**
* **What is TreeSet?**
* **How do you estimate story points?**

**Harjaj Computer, Interview Pune**

**Date:** 27/4/2024

**Years of Experience:** 4

* **Count the occurrence of each character.**
* **What is the scope in bean?**
* **What is the default bean scope?**
* **What is dependency injection?**
* **You have a controller with one GET method and one PUT method, and you want to access the database. What steps do you follow?**

**Swaplok Technology Mumbai, Interview Mumbai**

**Date:** 27/4/2024

**Years of Experience:** 4

* **What is the Object class in Java?**
* **What is the meaning of 'public static void main(String[] args)'?**
* **Can we override the main method?**
* **What types of inheritance are there in Java?**
* **Can we implement multiple inheritances in Java?**
* **What is the difference between class loader and StringBuilder?**
* **Are strings mutable or not?**
* **Explain the thread life cycle.**
* **What is multitasking?**
* **How do you create a deadlock situation?**
* **What are the different states of a thread?**
* **What are the benefits of Spring over Spring Boot?**
* **How do you create a Spring Boot application in Maven?**
* **What is Boot CLI?**
* **What annotations are there in Spring Boot?**
* **What is Spring Boot starter?**
* **Have you heard about Thymeleaf?**
* **Given a list of fruits, find out how many times each fruit has been repeated, find the last index of 'banana' and 'apple', remove duplicates from the list, and sort the list in ascending order.**

**DCM Infotech, Interview Hyderabad**

**Date:** 27/4/2024

**Years of Experience:** 4

* **Introduce yourself.**
* **Explain OOPs concepts: Inheritance, Polymorphism, Abstraction, and Encapsulation.**
* **Can we achieve multiple inheritance in Java?**
* **What are the main advantages of inheritance?**
* **What collections have you used?**
* **What is the difference between ArrayList and LinkedList?**
* **What is the difference between an interface and an abstract class?**
* **What is the difference between StringBuffer and StringBuilder?**
* **How do you create custom exceptions?**
* **Explain the Singleton design pattern and how to implement thread safety.**
* **If multiple threads are accessing the same resource, what will happen?**
* **You have an Employee class and you want to sort based on their salary. Which collection would you use?**
* **How do you resolve ConcurrentModificationException?**
* **What are the features of Java 8?**
* **What is a functional interface?**
* **What is the Stream API?**
* **What is the use of default and static methods in interfaces and why were they introduced?**
* **What are the Spring modules?**
* **What are the features of Spring Boot?**
* **What are the important annotations in Spring Boot?**
* **How do you configure annotations in your project?**
* **How do you configure a database in your Spring Boot project?**
* **What is a procedure function in Spring Boot?**
* **How do you create REST API endpoints?**
* **What are JPA annotations and mapping-related annotations?**
* **How do you handle global exception handling?**
* **What is the default scope of a bean?**
* **What are the other scopes?**
* **Do you know about messaging queues?**
* **What build tools are you aware of and what versioning system do you use?**
* **How do you commit code in a repository?**
* **Do you know about CI/CD pipelines?**
* **What is the Spring Boot REST API design pattern?**
* **Which frontend technologies do you know?**
* **How do you handle logging in your application? Do you know any logging frameworks?**
* **What is Spring Security JWT token?**
* **What are the SOLID design principles?**

**Interview Pune, MVC Architecture**

**Date:** 27/4/2024

**Years of Experience:** 0

* **What is MVC Architecture?**
* **Explain Microservices Architecture.**
* **What is '@RestController'?**
* **What are the methods? How do you test your application? How do you write JUnit test cases?**

**Interview Pune, Harjaj Computer**

**Date:** 27/4/2024

**Years of Experience:** 0

* **About your previous company and your project.**
* **What does the company do?**
* **Tell us about your project.**
* **Where is your code deployed?**
* **What were the requirements for your project?**
* **Can you give an example of where we would use Spring Boot?**
* **Explain how to download Excel and the flow of downloading Excel.**
* **Do you build the service for that task?**
* **If I want to get the user from the application, how do I get the user?**
* **What is JPA?**
* **What does it do? What are the advantages of JPA?**
* **How do you connect to the database using JPA?**
* **What is JDBC?**
* **How do you use a JPA repository along with any repository library?**
* **How do you connect to PostgreSQL in a JPA repository?**
* **What is a REST API?**
* **What is the difference between HTTP and REST API?**
* **If we write something in a browser, how do we get the response?**
* **What is the flow of the HTTP method?**

**Interview Pune, Harjaj Computer**

**Date:** 27/4/2024

**Years of Experience:** 3

* **About your previous company and your project.**
* **What does the company do?**
* **Tell us about your project.**
* **Where is your code deployed?**
* **What were the requirements for your project?**
* **Can you give an example of where we would use Spring Boot?**
* **Explain how to download Excel and the flow of downloading Excel.**
* **Do you build the service for that task?**
* **If I want to get the user from the application, how do I get the user?**
* **What is JPA?**
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* **How do you connect to the database using JPA?**
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* **How do you connect to PostgreSQL in a JPA repository?**
* **What is a REST API?**
* **What is the difference between HTTP and REST API?**
* **If we write something in a browser, how do we get the response?**
* **What is the flow of the HTTP method?**

**Date:**

**Years of Experience:** 0

**Nuke soft**

**Date:** 17/5/2024

**Years of Experience:** 4

* **Explain a project you've worked on that utilized Spring RestController or Controller for building REST APIs. Describe the challenges you faced in that project and how you approached problem-solving using Spring features.**
* **Discuss the Spring MVC design pattern and its workflow in handling requests and responses.**
* **Explain the concept of caching and its benefits in web applications. Describe the difference between first-level and second-level caching mechanisms.**
* **Describe how you ensure data consistency and thread safety in your applications.**
* **Explain the purpose and benefits of using the Singleton design pattern.**
* **How does it improve code maintainability and testability?.**
* **Explain the difference between creating an object using `new` and using `@Autowired**
* **Describe the different types of dependency injection like constructor injection and setter injection.**
* **What is Dependency Injection (DI)? . Discuss the advantages of using `@Autowired` for dependency injection. Describe the different types of dependency injection like constructor injection and setter injection.**
* **Explain how HTTP requests and responses are handled in Spring and Spring Boot applications.**
* **Describe how you configure a database connection in a Spring application.**
* **Are you familiar with Hibernate and JPA? Briefly explain their functionalities and how they compare.**
* **Discuss some of the key features introduced in Java 8. Explain functional interfaces, lambda expressions, predicates, and functions, providing their method names. Describe the purpose and benefits of the Stream API.**
* **Explain the key differences between traditional Java collections and the Stream API.**
* **Explain the purpose of primary keys and foreign keys in database tables. Describe the different types of joins in SQL (inner, left, right, outer joins).**
* **Using the Stream API, identify duplicate integers within an ArrayList. Transform an ArrayList of Strings to return each element of the list. Can you achieve this using an iterator instead of a for-each loop? Explain how iterators work with `hasNext()` and type casting.**
* **Write a query to find the second-highest salary from an employee table.**
* **Write a query to retrieve the top 5 employees from a table.**

**HCL**

**Date:** 17/5/2024

**Years of Experience:** 4

* **What is OOPs concept?**
* **Which collections are used in the project?**
* **What is a LinkedList?**
* **Explain the internal implementation of HashMap.**
* **What are the features of Java 8?**
* **What is a default method and what is its use?**
* **What are the SQL commands?**
* **Are you working with a unit testing framework?**
* **What are the scopes of Spring?**
* **What is the difference between Java Singleton and Spring Singleton?**
* **Explain the Spring bean lifecycle.**
* **What is an initializer in Spring Boot?**
* **What are the features of Spring Boot?**
* **What is the difference between @Controller and @RestController?**
* **What are the HTTP methods?**
* **What are the HTTP status codes?**
* **How do you find the occurrence of a character using the Stream API?**
* **What is microservices architecture?**
* **How does one service communicate with another service?**
* **If one service fails and goes down, how do you handle that?**
* **Do you know Spring Security?**
* **What is authentication?**
* **What are the SOLID principles?**
* **Are you working with DevOps tools?**

**HCL**

**Date:** 17/5/2024

**Years of Experience:** 4

* **What are the features of Java 8?**
* **What is a functional interface?**
* **Where do we use functional interfaces?**
* **What is the Stream API and where do we use it?**
* **How do you connect to a database?**
* **How do you configure a database and what considerations should be taken care of?**
* **What is an array and is an array an object or a primitive datatype?**
* **What is microservices architecture?**
* **Describe a scenario-based question on Spring Boot.**

**Clover Infotech**

**Date:** 17/5/2024

**Years of Experience:** 4

* **Explain the project you are working on at Clover Infotech.**
* **Describe how you implemented RestController / Controller for building REST APIs in your project. What challenges did you face, and how did you address them?**
* **Explain the usage of Spring and Spring Boot in your project.**
* **Describe the Spring MVC flow in your project.**
* **Explain the concepts of first-level cache and second-level cache and their usage in your project.**
* **Discuss synchronization in the context of your project.**
* **Explain the purpose of the Singleton design pattern and its usage in your project.**
* **Explain Dependency Injection (DI), and describe constructor injection and setter injection. Why do we prefer @Autowired over creating objects using 'new'?**
* **Describe how HTTP requests and responses are handled in your project using Spring and Spring Boot.**
* **How do you configure the database in your project?**
* **Are you familiar with Hibernate? How does it compare to JPA?**
* **What are the features of Java 8? Explain functional interfaces, lambda expressions, predicates, functions, and the Stream API.**
* **Discuss the differences between collections and the Stream API.**
* **Using the Stream API, how would you find duplicate integers in an ArrayList? How would you return each element of a list of Strings?**
* **Explain primary keys and foreign keys in MySQL tables. Discuss inner, left, right, and outer joins. Additionally, write queries to find the second largest salary and retrieve the top 5 employees from a table.**