**Daimler Interview Questions. 29-30 mins**

**Candidate 1 :**

Q1) Introduce Yourself and Projects done.

Q2) Java 8 features

Functional Interface. Lamda Experesson, Stream API, Method references, Default methods, forEach method,

Q3) Overloading and Overriding

Q4) final, finally and finalize difference

Q5) Java Collections framework and its hierarchy

Q6) Java Stream API

Q7) Springboot application Layers

Q8) Springboot Annotations @EnableAutoConfigurtion

Q9)

Write Java program that checks if two arrays

contain the same elements.

Integer[] a1 = {1,2,3,2,1};

Integer[] a2 = {1,2,3};

Integer[] a3 = {1,2,3,4};

Q10)

Given three different lists x,y and z, how will

you use streams to delete list y.

Candidate 2:

Q1. Introduce yourself and projects done

Q2. What are the 4 features of OOP?

**1)Encapuslation 2)Polymorphism 3)Abstarction 4)Inheritance**

Q3. Explain polymorphism with example?

Q4. Which inbuilt Class is final in java?

**Wrapper classes.like Integer,String etc**

Q5. What spring annotations you have used in your project?

Database annotation Like **@Entity,@Id,@Table,@JoinColumn,@OneToOne,@OneToMany,@ManyToMany**

**@Transient @Service@repository@Controller@Autowired**

Q6. What is @autowired?

**@Autowired annotation is used to autowired the bean on the setter method just like @Required annotation,Constructor property or methods.**

Q7.Write a code to reverse a string without using any inbuilt

public class ReverseString {

public static void main(String[] args) {

String str = "Hello world";

String revString = "";

for (int i = str.length() - 1; i >= 0; --i) {

revString += str.charAt(i);

}

System.out.println(revString);

}

}

1. White java class in notepad, should the name of the class and file name same and how many public class can be there?
2. Code nested java classes.
3. What is the meaning of static keyword?

**Static is a keyword in java which has a class reference, we can used static with variables, class, and methods**

1. What is protected access modifier?

**The protected modifier specifies that the member can only be accessed within its own package (as with package-private) and, in addition, by a subclass of its class in another package**.

1. What is difference between arraylist and array?

**Array:**  
Array is homogeneous collection of fixed number of values or blocks,

Array is static in size,we can not change the length of size according to our requirements.

Array can store both objects and primitive data types.

Array is a fixed length Data structure.

**ArrayList:**

ArrayList is a class of collection framework.

Arraylist is Dynamic in size ,we can change size according to our project requirement.

In ArrayList we can not store Primitive data types.

ArrayList is variable length data structure.

1. What is difference between hashset and arraylist?
2. **Implementation:**  
   Implementation : ArrayList implements List interface while HashSet implements Set interface in Java.
3. **Internal implementation:**  
   ArrayList is backed by an Array while HashSet is backed by an HashMap.
4. **Duplicates :**  
   ArrayList allows duplicate values while HashSet doesn’t allow duplicates values.
5. **Constructor :**  
   ArrayList have three constructor which are ArrayList(), ArrayList(int capacity) ArrayList(int Collection c)

while HashSet have four constructor which are HashSet(), HashSet(int capacity), HashSet(Collection c) and HashSet(int capacity, float loadFactor)

1. **Ordering :**  
   ArrayList maintains the order of the object in which they are inserted while HashSet is an unordered collection and doesn’t maintain any order.

**6.Null Object:**  
ArrayList not apply any restriction, we can add any number of null value while HashSet allow one null value.

1. **Syntax:**  
   **ArrayList:-**

ArrayList list=new ArrayList();

**HashSet:-**

HashSet set=new HashSet();

1. If we want to remove 50 numbers from arraylist and hashset then which would you prefer? Why hashset is faster than arraylist in this case ?

**Candidate 4:**

1. **Introduction.**
2. **Polymorphism.**
3. **Spring boot annotations.**
4. **Question related to stream api.**
5. **SOLID principles.**
6. **Program to print first 10 numbers in Fibonacci series.**
7. **Questions related to project.**
8. **What is @Id used for. How to define more than one primary keys.**

**Candidate 5:**

**What is your tech stack?**

Java FullStack with react for database MySQL,Postgres

**Explain your project?**

My project name was Vaccination management System.

**Write a Restaurant class (One of the entity from my project).**

**Can we access non-static members in static method (in my case main function)?**

**How to access non-static members in static method without creating object of the class?**

A static method can only access static data members and static methods of another class or same class but **cannot access non-static methods and variables**

**Give a solution to return restaurant with budget (One of the property in the Restaurant class) less than 5000**

**in a sorted ArrayList**

**What happens when you hit www.google.com (i.e. how client request reaches to server machine)?**

**Browser sends the HTTP request to the server**. Server processes request and sends back a response.

**If multiple applicatrions hosted on Tomcat server, how will you access your app? (port address concept)**

**Candidate 6:**

**SOLID Principles**

**ArrayList vs Hashset**

**Overloading overriding**

**Upcasting downcasting**

**singleton pattern**

**interface vs abstract class**

**data structures used in ur project**

**Design Patterns used in ur project**

**Use of Finally**

**Candidate 7**

**1.Questions about project**

**2.create entity class from project**

**3.create main method.**

**4.Polymorphism.**

**4.Method overloading**

**5.Method overriding**

**6.Finally block**

**7.Rest API**

**8.Ways of creating String objects**

**9.Exception handling**

**10.Data structures used in your project**

**BMW ( duration 1hr 20min~)**

advantage of maven? Alternatives of maven? questions on gradle

what is spring boot? what did we use/do before spring boot? Why we use springboot

java oops concepts. What are the advantages and disadvantage of object oriented programming?

how to connect to database in springboot?

Inheritance in java, why do we inherit?

Collections framework in brief, questions on hashmap, did we use in our project

Brief About our project. what server we used, some basic database questions, how did we develop our project, how were we testing our own project

Where and how did we use collections framework in our project, why did we use arraylist and hashmap where I claimed we did.

What java version did we use in our project or during training. (we used java8 and 11)

What are the new things introduced in java8 and talk about all the new components I replied with in short

Junit testing

SDFC, types of SDFC, did we use SDFC in our project.

Training vs working in project. College learning vs internship and how was the experience in actually building a project from scratch

What is devops in my opinion, what I think about future of devops

Block based programming

then some more personal preference to programming languages, preference in technologies.

Questions related to docker and Kubernetes, why we use, how did we use in our project.

Asked about everything mentioned on your resume and project you have mentioned ( if any left )

Basic questions on python and talk about the Django project I did. Experience in python till now, how the transition between python and java was, advantages disadvantages. Language preference. what domain im interested in.

**Stelantis ( duration 25min )**

Some Basic java concepts

Hierarchy of collections framework

Coupling, Cohesion and Composition (part of OOPS)

HashMap example, can we use objects as key in HashMap

Method overriding, overloading, why we use them. Why will we want to override a method instead of using a method with new name.

Interfaces and types

Spring boot, spring boot vs spring framework differences. Components of spring. Sprint boot. components and Spring boot annotation, which one’s we used in our project.

XML file and configurations we used. How do we import dependencies?

IDE we used and some advantages, alternatives

Q1 String names = "RAM RAJ RAJ RAM ROHAN";

How can we find the frequency of names in above string

Q2 Explained a scenario with a child class and parent class. Talk about all the way we can use all the methods present in both the class

Daimler Interview Questions.

Interview Questions:

1. What project did you do in your academics?
2. Tell me about the project.
3. Declare a class and write a main method.
4. What will happen if public in not used in the class declaration?
5. Does the program run if public is not written in main method?
6. Tell me about the collections used in your project?
7. Declare an array.