**Merck’s interview Questions**

**1St Round Question:**

1)How to convert String into Integer

2)what is Immutability and what is the main diff. Between final and Immutable

3) If a class object is final then can we say its same as Immutable explain if yes or no?

4)what is Swagger ? Have you used in your Project?

6)what is Application. Property?

7)How to get the value from Application. Property to any Java class.

8)What is HashMap? Its Working?

9)How the Put Method in HashMap work and its Return Type?

10)Program on how you remove particular word from string without using 2 for loop and any by default method

EX: i/P : I love my Country

o/p I love Country

11)what is Diff Between Comparable And Comparator ? and have you use In your any project? If yes then how?

12)Tell me what you know about Collection?

13)Explain Collection Api and its classes and interfaces.

14)what is diff Between ArrayList and Vector ?

15)how you can Add any column in Db?

16)what is Indexing in DB?

17) If Amazon has to be rebuilt again..what kind of REST Methods will you use for all the functionalities in Amazon shopping.

**2nd Round:**

1)Tell Me about Your Project?

2)Tell me in details how the overall flow of project if You want to perform CRUD Operation from Frontend Through Angular or any Technology To Java Backend And Through Db. What are the things u use and what are the classes and pkgs u use tell everything in details .

3)What is Immutability can you write program for Your Own Immutable class.

4)What you know About Spring Boot?

5)What is diff. between RestController Vs Controller.

6)what is Autowiring?

7)Remove the Duplicate From Array?

8)Remove Duplicate From String without using 2 for loop.

9)Reverse a string of character and take i/p from user and take input unless you get word stop continue to take i/p from user and reverse that input String.

10) Java is fully Object Oriented or not if not then how we can handle this situation

11)What is Wrapper classes? why we use wrapper classes ?

12) How to Convert String Into Integer using ValueOf method.

13)what is static Binding and Dynamic Binding

14)what will happen if your parent class doesn’t contain any exception but child class contain compiled time exception then what will be the o/p.

15)what is Method hiding and explain with example.

16)what is @PostMapping and @GetMapping

What is java 8 features?

2: Which technology is used in project.

3: Explain full project work and what’s your roll and responsibility?

4: Explain Spring boot login authentication.

5: Which type of authentication used in previous project.

6: Spring boot security. 7: Logical flow of E-commerce site.

8: How to update project in git.

9: What is jira.

10: How to create hash map and add elements to it and print the values by using foreach loop and stream?

11: What is exception & how can we handle in java project?

12: What is the difference between throw & throws?

13: What is need of packages in java?

14: What is SDLC( software development life cycle)?

15: Write a program to traverse HashMap?

16: Explain collection framework with it’s hierarchy?

17: What is difference between List & Map?

18: Access modifiers in JAVA & explain each of them.

19: What is abstraction?

20: What is difference between abstract class & Interface.

21: Explain Java 8 features?

22: Explain stream API with it’s advantages?

23: Explain functional interface & explain built-in functional interface provided by JAVA?

SQL 1: Apart from MySQL what are other data-bases you know?

2: How to create table?

3: Add and remove column in existing table? 4: Update record

**---------------------------------------- Shivam Nema ----------------------------------------**

What is RESTfull web services?

Type of web services?

Diff b/w SOAP and REST?

Why REST is stateless?

Annotations used while creating REST services?

Diff b/w POST and PUT?

Why we use patch?

Why we have POST when we can create data with PUT?

What is content-type while using PATCH?

Which DS will be used to insert the data in sorted order?

How TreeSet internally works?

Which DS is followed by TreeSet?

Diff b/w Comparator and Comparable?

What is singleton class how can we create a class singleton?

What is immutable class and how to create an immutable class?

Checked and unchecked exception with example?

How to avoid NullPointerException?

What optional do?

Diff b/w abstract and final class?

How to create abstract class?

What is immutable class?

Can we instantiate the abstract class and why?

Importance of finally block with real time scenario.

Serialization and Deserialization. How to Serialize an object?

What is marker interface? Give some example.

LinkedList vs ArrayList?

Write a code to find all pairs of integers from a given integer array such that the sum of these number is 12. [3,5,6,7,-1,4,2]

Find max frequency of 1 in any binary array.

**---------------------------------------- Sumit Abhyankar ----------------------------------------**

1. previous company project
2. web services (REST vs SOAP)
3. java 8 features
4. stream() (with code)
5. why we use package
6. static keyword
7. null keyword
8. inner classes