Consolidated Interview Experiences:

Interview 1:

1. Oops concepts with examples (polymorphism: static & dynamic, Inheritance, Abstraction )

2. Write singleton design pattern. Can we extend a singleton class? if yes What we can do in singleton class to avoid inheritance?

3. Write sql and hql query for insert, update, groupby and many to one mapping.

4. Write Restful webservices flow from controller to Dao with all annotations.

5. Can we make classes static? constructor can be static? Static inner classes.

6. Microservice overview

7. Difference between rest and soap.

8. Spring Boot configuration and where to keep properties to override the defaults.

9. Microservice architecture, how to consume a microservice, security in services.

Interview 2:

**Java Microservices with NoSQL**

**First Round**

1. Write a REST API (on paper) to count the number of hits to that API. how would you handle multiple request coming together.

2. What is problem with Singleton objects?

3. Hashtable vs concurrent HashMap.

4. Where would you use concurrentHashMap and HashMap?

5. NoSQL vs RDBMS and where would you use which one.

6. Monolithic application vs microservices architecture. How would you break a monolithic app into microservices.

7. What are the advantages of microservices over monolith and vice-versa.

**Second Round**

1. Monolithic vs microservices.

2. Microservices communications

3. Queues vs direct calling the microservice.

4. Functional Programming.

5. Lamda expressions.

6. How would you merge two separate integer lists into single list and then iterate and print some message for odd and even int.using java 8.

Interview 3-

1. Internal working of collections data structures. Treemap and concurrentHashMap was asked from me and their complexity.

2. If only elements in decreasing order, like 1000, 999, 998....3, 2, 1 are stored in a TreeMap, then all the elements will be stored in left node of it's previous node and right node will be null for all. In this case, it is similar to a LinkedList. What difference it makes to use treemap over linked list in this case.

3. Write psuedo code for finding the depth of a tree.

4. Lifecycle of a spring bean and questions around when the lifecycle methods are called.

5. Difference between RDBMS and NoSQL DB.

6. How is storing data in files as BLOB different from storing data as document file in mongo.

7. Components of springboot that one has worked upon.

Interview 4

The interview went good. The interviewer asking more of conceptual topics.

viz., DataStructure(tree, sorting), Config/Discovery

service, MQ data transfer concepts, Circuit breaker, Spring security etc.

Interview 5:

**Java Microservices with NoSQL Db - Req. 514-517– Madan Kumar**

1)String concepts in depth

2)Develop a microservices

3)how to have communication between two micro services

4)Write code to create Rest API

5)Encapsulation concepts

6)How you a service is micro service

7)What is @restcontroller

8)what is difference between @restcontroller and @controller

9)how you design the simple micro service application

10)Explain Http client in web services

11)explain web services

12)Java 1.8 features

13)psuedo code for streams concept

14)what is a thread?

15)string buffer concept?

16)explain project architecture?

17))why string is immutable

18)what is purpose of string design as immutable?

19)what is string constant pool?

20)how class make as immutable?

Interview 6:

1. How do you display the duplicate words in a file when below are the resources you have:
   1. File size is 5GB, it can be above in future.
   2. RAM size is 1GB.
   3. How do you read the data in it, if you are able to overcome the OutOfMemoryException kind of issues?
   4. What are the solutions that you can think of?
2. How do you handle the **Scenario #1** in a clustered environment? Do you use any 3rd-party software's/tools to process? If yes, what are they? If No, then how you are going to handle the 'Duplication' issue?
3. What is Docker? What is it used for? How it is different from traditional software's? What are Pros and Cons?
4. How do you check if the image is not responding/running? What logs you will check? What are they called?
5. What types of logs you know? Name the types of logs?
6. One image is running fine in 'Local/Dev environment' but not in 'Production Environment'. How do you handle the situation? Are there any procedures you will follow? If yes, what are they and how you are going to use?
7. **Scenario**: Client has a Monolithic application, which was working fine until few months back. Now performance got degraded.
   1. **Requirements**:
      1. Client wants you to solve this problem.
      2. Client wants you to change the architecture i.e., Upgrade the system/application.
      3. Client wants you to provide optimal solution, where less effort/money involves.
      4. Client wants you to give your first thought/solution which comes to your mind and for which reason.
      5. How do you convert Monolithic application to 'Micro Services'? What are the procedures/patterns you will follow while converting/changing?
8. How do you handle/manage when there are many types of logs? Do you write the software or use the existing 3rd-party?
9. What do you know about the Clustered environment and how do you create/add a node (i.e., Adding one more to the existing)?
10. What is a load balancer in AWS? What are the Pros & Cons? How do you handle it?
11. How 2 or more microservices can communicate each other? What are the ways to do and how many?
12. Difference between SOA and Microservices? Is the 'Microservices' architecture is the ultimate solution for all?
13. Common Question: For every solution, how it is going to fail and Where/When/How/What?

Interview 7:

1. What is HashMap? How hashing works internally?
2. Why hashcode() returns int instead of long?
3. Which data structure you suggest for ordered/sorted? Can both be achieved?
4. How to convert ordered data to sorted? How many ways can it be done?
5. What is the ordering of ArrayList/HashMap?
6. What are the differences between Array and ArrayList? Which one you would prefer on what type of situations?
7. Can the hashcode is calculated for numbers(i.e., int values) also? If so why and how?
8. What's the use of default methods?
9. Explain Spring Bean life-cycle? What are the stages, methods and processes it will follow to keep track of the statuses?
10. What is Spring Boot? What's the use over Traditional Spring application?
11. What are Spring Boot features? Why it is preferred over traditional spring application?
12. Have you worked on CI/CD process? Which tools/software's you have used?
13. Have you hands on experience in Docker/Kubernetes?
14. Apart from the deployment process in Docker/Kubernetes, have you done anything else specifically?
15. How you have used Jenkins in the process of CI/CD? What are the configurations you did?
16. Which cloud platform you know?
17. Have you worked on any NoSQL Databases?
18. Why go for NoSQL instead of RDBMS? What are the pros and cons? Which one you choose?

Interview 8:

1. Have you worked on any Functional Programming language? Is yes which language it is? If not, can you write Functional Programming in Java?  
 2. What is Flux, Mono and Flex Iterator?  
 3. What is Marker interface? Example  
 4. How do you use the serialization process? How do you identify whether the transferred object is modified or not? Example  
 5. Which is the best suitable data structure, for processing/fulfilling the below requirements, that you use for below custom classes:  
 **Employee**(int id, String name, double salary, int deptId) & **Department**(int id, String deptName)  
 **Details**:

* You cannot use any 3rd party framework to retrieve/build the data or to fulfill the functionality.
* Solution should be performance effective. Means time/space complexity should be at best.
* Data (i.e., Employee and Department objects) is already present in In-Memory. Imagine your own data structure used to hold the data in In-Memory.
* Don't traverse through the data using looping conditions.
* Define 4 methods to perform some operations: getAllEmpsByDeptName(), getTotalEmpsSalaryByDeptName(), getSecondHighestSalary() & getAllEmpsByDeptNameAndSalary()
* Above 4 methods in class should be generic.
* Which is the best searching algorithm you recommend for retrieval of data with the above requirements? Write code

6. What is Functional Interface? What are the methods allowed in there? What is default method?  
 7. How do you convert array/list into streams? Write code  
 8. How do you process the array/list parallelly in java 8? Write code

Interview 9:

1. What is IOC?

2. Explain spring bean life cycle?

3. write a program to sort a map by value using stream

4. How to implement spring security?

5. What is functional interface?

6. What is static block?

7. What is default method in interface?

8. Describe the recent project you have worked on

9. Do you have any retail domain experience? if yes, please elaborate

10. Describe how hashmap works internally.

11. consider there are 4 microservices and communication among them are like A->B->C->D. If C fails, how to overcome the situation?

Interview 10:

1. Previous projects discussion
2. Explain Hashing.
3. What is Hash map upgradation in Java 8 & explain?
4. Program:

Step 1:

Palindrome, Fizz-Buzz

Step 2:

Define Complexity of the two programs

Step 3:

Write code of these two programs in optimize way by reducing Time & Space Complexity.

1. What is Time & space Complicity.
2. Difference between ArrayList & LnkedList.
3. Comparator in Java 8
4. Java 8 features.
5. Example in Streams with filter.
6. Client handling experience
7. Agile Concepts.
8. Experience as Scrum master role from previous

Interview 11:

1. What is **REST** full form?
2. What is **Representation**?
3. What is **State**?
4. Is REST **Stateful** or **Stateless**?
5. If Stateless, why it is called as 'State' Transfer?
6. For what, REST is used?
7. If an endpoint is not defined, means, is it not a web service?
8. What is the first step in OAuth 2.0 flow?
9. What are the components called, in OAuth 2.0 flow?
10. How does an 'Authorization Server', in OAuth 2.0 flow, will understand that what type of authentication mechanism is been used to validate the user?
11. What are the tokens that you will generate in OAuth 2.0 flow?
12. If Spring dependency Injection concept is 'NOT THERE/PRESENT', how do you create your custom **IoC**/**Dependency Injection** concept?
13. **Scenario**:
    1. A **Book** with primary key '**b1**' already inserted in horizontally scaled database (i.e., in D1). All are sharded. There are 4 databases used, say D1, D2, D3 & D4, for saving the Book.
    2. Here, D1 has the Book record and D2, D3 & D4 doesn't have the record.Now when I try to insert the Book with the primary key 'b1' (i.e., Duplicate Book Record) again, it should throw an error saying 'Duplicate Record'.
    3. How do you handle this scenario? What are the steps that involved in this process?

**Interview 12 – Full Stack**

1.Brief introduction about your Roles and Responsibilities

2.Scenario: Print the name of employee who is a manager and an employee in an organization from the Employee table

3. Scenario: Create a service which displays Employee based on the Department Name passed using SpringBoot Rest + JPA

4. Explain the bean scopes available in Spring

5.Create a Singleton class. How is it different from Spring Singleton?

6.Scenario: An array data structure has set of string variables, print the number of occurrences of the variables without using collection API’s like Map

**Interview 13 – Full Stack**

1.Brief introduction about your Roles and Responsibilities

2.Scenario: How do you build Angular app and SpringBoot app together in container like Docker

3. How do you access alone hosted Angular component with static json data in an HTTP request

4.Scenario: How do you migrate Spring Appln’s to Spring boot and what all need to be considered to do.

5.How Spring boot is different from its earlier version and what are its benefits

6.Have you worked on Message Broker or streaming application. Could you explain Kafka or RabbitMQ configuration with SpringBoot

7.Could you write or tell about complex queries. Can you write query where it prints second highest salary from an Employee table?

8.Could you explain annotations required to build a service using SpringBoot end to end

9.Scenario: Explain how authentication works in Spring rest services

10. Have you worked on JdbcTemplate using spring over JPA.

11.Could you tell me about the different types error codes available and their usage in services

12. How different services can communicate each other securely

**Interview 14**

1. Java , Spring Boot Micro services  and database questions
2. write java code for the Programme to check whether the character of the string is unique or not ?  
         Input String = INDIA ; it should return false  
         Input String = CAR ; it should return true
3. What is the difference between String and character array?
4. The scenario was to design the database for the twitter project. The database design requires to store and retrieve messages of the user. We can use any database however the data stores in the database should be unique.
5. Retrieve all the employee details from database using Spring Boot Micro services. Write the step by step code to retrieve the data.
6. Based on the above scenario, what’s the difference between @Component, @Repository & @Service annotations in spring?

**Interview 15:**

1. Explain java memory model - heap, stack memory, garbage collectors
2. how do you secure the rest service
3. explain spring bean lifecycle
4. what are the annotations and their usage in spring boot application
5. How do you connect to the database from service
6. procedures/patterns to convert monolithic to microservice
7. Microservice architecture and communication between services
8. design patterns used in microservices
9. write pseudo code to design a bookshelf.
10. Bookshelf can have no of rows
11. each row can contain no of books

Interview 16:

* Design of microservices migration for a retail monolithic application -use case
* Handling both synchronous and asynchronous communication
* CAP theorem,
* Mongo document design for a employee table with department for single retrieval
* NewSQL
* REST API design

Interview 17:

The interview as such was good and hope I catered to all what they asked me to. Below is what I felt based on my discussion,

1. Though they are not very particular about the domain exp. in Retail/FMCG but if you can give them someone with that, he or she will have a better chance. I had done only 1 big project on travel domain which came close to a retail domain.
2. From a technical point below is what I went through,
   1. Micro-services: I understand they are also in the process of modernizing their stack and this is the primary requirement which I answered using the Spring Boot framework.
   2. Core JAVA/J2EE,

* Spring frameworks as mentioned above,
* ReST services and architecture, ( I answered this using the Spring ReST template in MVC or Boot applications)
* HTML-5 (experienced in method usage like PATCH on top of PUT, DELETE, GET, POST etc.),
* Domain driven data segregation/domainization. (Micro-services with data binding was what I mentioned though in the architecture I drew I showed the database creating the domain components on demand from the mainframe with the exception of reference and search indexing data. I am not sure how well he liked the idea though he agreed to the concept)
* Collections (I felt this because he asked me about them especially maps, though not in detail. which is very common but thought I should mention),
* Java threading concepts (Multithreading, threadgroups, taskexecuters etc.). He was specifically interested in delayed thread execution and termination which can be done in many ways in JAVA. I chose the wait(), clear and terminate though I am not sure if he was completely satisfied with the answer.
* Spring profiling (Not a very common thing which is asked in an interview but he asked me that and which I couldn't answer satisfactorily because I have not specifically used the profiling directly out of the box in my projects previously but have catered to such requirements using other tools).

1. Google cloud experience is expected (Though I could answer most of the things he asked based on my experience with AWS and Azure, I did tell them that I have not worked on a live project in Google cloud).
2. Containerization technology and High availability which I answered based on my experience with Docker and Kubernetes.
3. Service Orchestration especially inter-service over service-mesh. I had used NGNIX which internally uses Istio (I forgot this name during the interview though) capabilities and my answer to that was based on my this experience.

3. He did ask me a couple of times on when I joined IBM and I told him its been just a week plus. I am not sure how relevant this is but since he asked me a few times I thought I should mention it.

Interview 18:

* He is expecting good at docker , example how you deploy code to docker.
* He is expecting some good knowledge at linux scripting.
* Core java he asks a scenario like some strings he will give, and ask some kind logic to built , example he is asking to to compare the string inputs and see if two strings are common and how many common letters matching in that.. these sort of code you have build and convince him.
* He asks to write code in microservices by giving some example . like employee, department and will explain the how you build basic crud operations end tp end.

Interview 19:

1. Current project structure

2. JDK 8 Streams.(question was more focused writing on syntax in java 8 only instead of concept )

3. Idempotent concept of HTTP method

4. Joins

Interviewer asked candidate to open IDE and gave a JSON sample having a list with employee id, name, age, etc.

Then asked to write Java 8 one line code to filter out list with age>21

hope you have some user friendly IDE installed on laptop or else you may find it difficult to do on notepad since it will not give autosuggestions.

Interview 20:

* New Features in java 8
* Collection Streams
* Lazy loading in Hibernate
* Http methods(Get, Put ,Post etc) which one is used for what
* Restful API using Spring Boot
* Spring Boot package structure
* how to convert standalone spring to Restful what all changes would be required
* Why to use microservices

Interview 21:

- Scenario Given and asked for Design Approach (including API calls, Data required) [Sterling Based]

{Once user login to the front end app and wants to see only his orders, 6 months old orders, in this case what could be end to end full flow, what data required and what API's get triggered}

- Difference between operation and transaction [General Case]

- About Java Collections [HashMap, Hash Set, Array List]

- Ask for code base [need to write the logic (Scenario given)] -  How to store bunch of Orders (eg: 100 orders)and access them (iteration). If it store in map how to iterate them.

- Few Questions from Database.

Interview 22:

   Interviewer asked me 3 coding questions in eclipse.

* Display distinct elements in any array. - Done n run it to show output
* 2nd highest number in an array  - Done n run it to show output
* Control object creation in an array + you should know how many object created for that object
* I was coding it by creating a singleton & applying approach when a singleton will not be singleton n counting its objects.

Interview: 23

1. Brief me about your experience and skills.

2. Ask 2 write 2 programs in Java 8 and explain the same

    2.1 .Write Custom Functional Interface, Use the same , execute the same also explain

    2.2 . Write a program to find the 4 highest number in the given array.

My interview went for only 10-15 mins, it was very short discussion.

Interview 24:

1-understanding about current project and counter questions will be there on project.

2. How to make any class as complete Immutable.

3. Parent class contains run method and handle exception through RuntimeException and Child class override the run method and handle exception through IOException. Is it valid?

4. How to customize health check of spring boot application.

6. What is the command for finding port number for container in Docker?

7. What is the command for finding all the running container in Docker?

**Interview 25:**

1) Self Intro

2) Architecture of latset projects worked?

Core Java:

Java 8 features

Program to sort list, reverse lit,map iteration with java 8 syntax.

Desgin patterns worked?

How we can break singletone?

How we can ensure singletone while serialization?

Faster searching Data structure?

Faster manipulation Data Structure?

Predicate use with sample?

find the first non repaeting character in a string?

final in inner class

Spring boot:

@Qualifier annotation?

How to handle too many requests to a rest api?

Secure rest api?

Sample rest api flow with cicd pipeline?

diff betwwen put patch?

handle timeout in api?

Microservice:

how microservice communicate each other?

fault tolerance in microservice?

circuit breaker in microervice?

log managemnet in microservice?

Deployemnt in microservice?

Disadvantage of miceroservice?

Migration monolith to ms?

resiliency in spring boot?

Docker:

Docker hub?

process of docker deployment?

Kuberatees:

Pod autoscaling in kubernetaees?

log check in k8?

nosql:

disadvantages of nosql?

when to choose what dbms vs nosql?

advantages of nosql?

Kaffka:

why kaffka not rabbit mq?

**Interview 26:**

1.Breif about yourself.

2.what is the benefit of using AWS API Gateway.

3.In which case we have to use AWS Lamda Function.

4.What is Circuit Breaker.

5.Have you worked on NoSql.

6.Have you worked on any data structure.

7.As per my answer He asked about LinkedList.

8. How to find the middle element of the LinkedList.

9. As per my answer He has given scenario, suppose there are odd or even no of elements in LinkedList. Find the middle element

Interview 27:

Asked to write java8 code for given problem

Question on Design patterns  
Question on Service Discovery  
Question on Locks/Synchronizations  
Design sequential validation framework(if one validation fails then it should not proceed further)  
Question on Completable Future  
Question on Circuit Breaker

Few questions on Spring Boot configurations

Interview 29

Interview was good. Mostly they were asking about  Java 8  
1: Java 8 filtering related questions  
2: merging two arrays using Java 8 .

3: Basics of kafka not mandatory to answer everything but if you know any Messaging Queue that should be fine.

4: Fetch documents from mongoDB or any Nosql based on certain condition.

5: Microservice related Exp, means what was the project Architecture and roles and Responsibility.  
6: System designee related questions with use of kafka, ELK stack with microservice.

Interview 30:

* Walkthrough of experience.
* Explain most recent project tech stack & architecture.
* Write the code to perform any Get operation end to end. Explain while writing the code.
* What is @RequestMapping ?
* How do u maintain versioning of API when you have to retain older version as well?
* Difference between PUT & POST?
* Difference between PUT & DELETE?
* What if you have to do if front end is not passing id as path variable or query param? how else can it be passed? can we use GET operation if it is passed in any other manner?
* How will you implement/ send paginated data to front end ?
* How will you send sorted data to front-end?
* Java 8 features. Explain the one's you have used in earlier projects
* Write a code to sort a list and append "aaa" using Java 8
* What is docker?
* Have you worked on reactive programming? GCF?
* Have you worked on swagger? How to generate it? What is a yaml file?

Interview 31:

1. Technology stack used in previous project  
2. Find 3rd highest element from the given list(collection) - coding  
3. Seperate even and odd numbers using streams - coding  
4. Design patterns used in our project.  
5. Functional interfaces   
6. Why only one abstract method allowed in functional interfaces.

Interview 32:

1. How can we make Singleton design pattern and also make it thread safe.

2. Scenario based question on design pattern: Home Alarming System designing

3. Transaction Management in cases where server had failures triggered.

4. Saga pattern for Microservices

5. Design Code for finding occurrences of characters in a String like

**Input**:  aabedrdraa

**Output**: [a=4, b=1, e=1, d=2, r=2]

6. Functional Interfaces in java 8

7. Why multiple inheritance is not supported in Java

8. Static Binding and Dynamic Binding

9. An example in your project where you have implemented Multithreading concept

10. Thread local variable in java

11. Memory leak in java and scenario where you have implemented this concept.

12. Approach for Handling issues in legacy/monolithic systems like System ran OutOfMemoryError exception.

Interview 33:

As per my experience the client is more focused java 8, and Microservices implementation apart from this please find the below questionnaires which were asked to me in the interview :

1. Java 8 feature

2. Two coding questions on streams (1st. Check if two strings are anagram. 2nd. Check if integers are meeting the criteria and store them in  list)

3. Design patterns used in Microservices Architecture.

4. Spring MVC flow.

5. Spring bean scope and lifecycle.

6. Spring boot autoconfiguration

7. Rest api example with db mapping.

8. how to use docker

9. How to scale up Microservices using kubernetes

10. Few questions on the last project which I worked on.

11.  Hashmap internal implementation  
  
Interview 34:

First Round:

1. Walkthrough Experience and Technology Stack.
2. Explain about project architecture
3. OOPS concept with real world example
4. What will be the output of the below program and why?  
   String x = "Xyz abc";  
   x.append("pqr");  
   x.append("qwe");  
   System.out.println(x)
5. Explain java 8 features.
6. Difference between Map and Flatmap in java 8
7. Write a program to exclude given words from a given list.   
   Given List: List<String> lines = Arrays.asList("demo", "test", "IBM", “test”);  
   Word to exclude: test
8. Count occurrence of characters from given string.   
   String x = "aaabbabbadddccc"
9. Find missing number from given list of 1 to 100 numbers
10. Difference between @PutMapping and @PatchMapping
11. Advantages of Spring boot over spring.
12. Difference between Prototype scope and Request Scope of bean.

Second Round:

1. Walkthrough Experience and Technology Stack.
2. Explain about project architecture
3. How will you find the most selling product from an ecommerce site?
4. Write proper flow from controller service dao layer for @Get, @Post @Put @Patch mapping.
5. Difference between @Get and @Post? (What is idempotent method)
6. Explain about RentrantLock? Asked to write thread implementation, Executor Service.
7. How to maintain Transaction in the dao layer in two different methods.
8. How to maintain distributed transaction in Microservice architecture
9. What is saga design pattern
10. Circuit breaker design pattern
11. Singleton design pattern and how many ways we can break it? And how to prevent it from breaking.

Interview 35:

**Java 8 features:**

* What are all the new features in java 8?
* Questions on streams,filter we need to write a code for given scenario?
* Explain what is functional Interface  why default & static methods in interface ?

**Collections:** List, Linkedlist,Map & Set implementations

**Microservices:**

* Project Architecture.
* Monolithic application vs microservices architecture. How would you break a monolithic app into  microservices
* What are the advantages of microservices over monolith and vice-versa
* What is Circuit Breaker, Explain ?
* How do  microservices communicate with each other ?
* Explain me about logs

**Other:**

* Some questions on kafka
* Questions on design pattern
* Write a program to count number occurrence of word for a given String

Interview 36:

**Describe about current project**

1. **Write a code to check the string is palindrome , after ignored the first letter**
2. **What design patterns you are aware of.**
3. **How microservices communicate each other**
4. **Function overloading and overriding**
5. **Differentiate hashtable and hashmap**
6. **Failsafe and fail fast**
7. **List the request methods in rest api, and differentiate PUT vs POST vs FETCH**
8. **Serialization in spring boot**
9. **Constructor overloading and copy constructor**
10. **Final constructor is possible in Java?**
11. **Write a query to find the employee in each branch who‘s is salary greater than 10000.**
12. **Autoboxing and unboxing**
13. **Transaction in spring**
14. **What is IOC and dependency injection**
15. **What is autowiring**
16. **What is qualifier annotation**
17. **What is cyclic dependency**
18. **Httpv2**
19. **Caching in spring and distributed cache**
20. **Life cycle bean**
21. **Spring session**
22. **gRPC**

Interview 37:

1.Introduce yourself.

2.What are the technologies you have worked upon in your last project?

3.Have you worked upon Microservices?What do you understand basically by Microservices?

4.What all design patterns you have worked upon Microservices.Explain any one of them.

5.What are the 12 factor principles for Microservices?

6.What do you understand by functional interface?

7.Why do we have functional interface?

8.Why do we use Streams?

9.Difference b/w HashMap and LinkedHashMap?

10.Have you worked on ConcurrentHashMap.If Yes,Explain.

11.Is HashMap thread safe?Please Explain in both the cases either yes or no.

12.Suppose there is a class.You have to write a junit for that class and also that class calls Rest API and it receives JSON response and that JSON response can be inserted in mongo DB.

13.How you'll mock the database?

14.What all design patterns you have worked upon in Java?

15.Explain Singleton Design pattern.

16.How you'll ensure that only one instance is present?

17.Why do we use private constructor in Singleton?

18.Difference b/w notify and notifyAll?

19.What are different scope of spring bean?Explain each one of them.

20.What is the use of @Autowire annotaion?

21.What is the usage of @Component?

22.Which cloud technologies you have worked on?

1.Introduce yourself.

2.Explain the last project you worked upon?

3.How many microservices your project were using?How connection was established b/w the microservices?

4.What kind of usecases is required for sync and async connection b/w microservices i.e in which scenario we'll use sync or async?

5.Explain design patterns you worked upon in your last project?

6.Explain Singleton design pattern.

7.Have you ever used circuit breaker pattern?Why we use this pattern?We can let anyway fail.So what is the basic requirement for this implementation.

8.Main collection on which you have worked upon?

9.Suppose you have ArrayList containing String value "Shivangi" and HashMap as well having key and value String respectively where key is "Shivangi" and value as "Shivangi".So how we'll get the value from ArrayList and HashMap?What is the method we'll use to get the values from HashMap?

10.How we'll do search by object in ArrayList?

11.What is the difference in the get method of ArrayList and HashMap?

12.Which one among ArrayList or hashMap is more optimised and faster?

13.Suppose you have a stream of employee objects which have name, id and age respectively.So Among those employees ,I want to filter out employees having age >20.How can I do that?

14.Instead of collecting it into list I want to convert it into a map having key as employeeId and the value as name.How can we do that?

15.Write a code to group all the employees together having age 20,21 and 22 in the streams and collect.

16.Write pseudo code for Singleton design pattern.

17.How we implement thread in Java?

18.Write odd and even number from a list of integers using two threads.You can use 1.7 or 1.8.

19.Write a pseudo code for implementation of threads in both the ways by extending thread class and by implementing Runnable interface.

20.Explain kafka architecture.

21.We are having one microservice "A" which is sending message and another microservice "B" which is receiving message.How that interaction will happen with Kafka?

22.What is role of Broker?

23.What is Zookeeper?

24.Let's say we have Microservice 1 which sends the msg to topic "A" and there is microservice 2,3and 4 which want to listen to the same kafka topic "A".Microservice 2 listens to the message first.So now can microservice 3 and 4 listens to the same message again or will it be taken by Microservice 2 as it has listened to the message first?

25.How we'll migrate from Spring to Spring Boot?What all basic things are required to do the same?

26.Do you know stereotypes?

27.Do you know profiling?

28.What is the dev tool in Spring Boot?Its purpose.

29.What is Qualifier annotation?

Interview 38:

Write a program that, given an array A[] of n numbers and another number x, determines two elements whose sum is exactly x.

Examples:

Input: arr[] = {0, -1, 2, -3, 1}

sum = -2

Output: -3, 1

Migrate spring application to Spring boot application Spring validation

Previous Project Architecture

Docker file to run spring boot application

Functional Component vs Class Component in react

How to incorporate external configuration in Spring boot

Microservice vs Monolithic application

-------------------------------------------------------------------

Write a program that, given an array A[] of n numbers, determines number of occurrence for first repetitive number

Examples:

Input: arr[] = {1, 2, 7, 2, 1, 6, 8, 1}

Output: 1 = 3

Messaging Queue concept

Spring bean life cycle

How internally works concurrent hashmap

Diffrent types of thread lock

Microservice advantages and disadvantages

Dependency Injection concept

------------------------------------------------------------------

Write a program to find all permutations of a given string

Previous Project Architecture

Microservice design pattern

Controller vs Rest Controller

MongoDB vs RDBMS

Sharding in MongoDB

How to manage distributed logging mechanism in application

Spring security implementation

Interview 39:

1. Project architecture

2. Microservice Authentication

3. Microservice Security

4. Search a word in a 2D grid of Characters(Data Structures).

Interview 40

1. Explain about latest project
2. Toughest challenge faced in latest project
3. Functional Interface
4. Default and static methods in Interface and how Abstract class is different from Interface with default method
5. Intermediate and terminal methods in Java 8
6. Difference between stream and parallelStream
7. Inversion of control and Dependency Injection
8. Lifecycle of Spring beans
9. Types of Scope in Spring
10. Difference between Spring and Spring Boot
11. Spring boot auto configuration
12. Difference in configuration of MySQL data access in Spring vs Spring Boot
13. Spring boot modules you have worked in.
14. Advantages of Microservices
15. Microservices design patterns and their explanation
16. How to protect from a hacker sending thousands of requests and stress out a service.
17. Given a list of *Employee {long id, String name, int departmentId}* objects, transform the list to a map with departmentId as key and count of employees with that departmentId as value.
18. Given an input stream (Ex: “abbabbac”), need to produce output “bbbbaaac” where characters are order by highest count of repetitions.

Intervview 41(Round 2 SDE)

1. Explain the purpose of your latest project.
2. What is the architecture of latest project and technologies used.
3. Design patterns you know about.
4. Advantages and disadvantages of Singleton pattern.
5. In which scenario may a singleton have more than one instance and how we can avoid it.
6. Which design pattern is suitable for the following scenario. Organization will onboard employees and multiple departments like Finance, HR, etc should be notified when a new employee is onboarded.
7. Any disadvantage in Observer pattern.
8. Suppose if there are three microservices (Service A, B, C) and while doing a business flow Service C will get responses from Service A and B and based on the response it will update Success/Failure status. If Service B is busy and not able to respond on time to Service C then failure status is getting updated. How we can ensure that when Service B responds in future then we update success status at Service A.
9. What is CQRS pattern.
10. Given a list ["9", "4", "two", "5", "10", "7", "three"] where sometimes words will be there instead of numbers, sort the list so that output will be ordered like ["two", "three", "4", "5", "7", "9", "10"].

Interview 42

Code test:

Write logic to order list of month names which are not in order.

Hashmap and concurrent hashmap internal

What will happen if we try to insert same key with different value. What is its internal logic.

Singleton design pattern

How to make sure singleton design pattern cannot be broken

Spring framework benefits

Scope of bean

Spring boot application benefits

Java 1.8 features

Steams API

Benefits of lambda expression

Questions related to Docker, Jenkins, CI/CD and cloud if worked

Interview 43

1. Write a program to word wrap text.
2. How to create your custom library for spring boot application and make use of them
3. Facade pattern and architectural implementation
4. Strangler micro services architectural pattern.
5. Design MS architecture and explain MS for below - Books catalog, search book, manger user, monthly subscription, sends notification, add remove books.

TESCO Interviewer : Kiran Molabanti

Interview 44

1. Tell me about your recently challenge work which you solved in terms of technical.

They asked many cross questions in my reply in terms of technical design.

2. What is Time complexity of Binary Tree

3. What is difference between Binary Tree and Binary Search Tree.

Many back forth question on above 2 questions related to Time Complexity

4. What is Log(N) and how it will come to Log(n) from Binary Tree and BST.

5. Program

There is pragraph(Collection of line). We have to break the line on 100 characters and return list of String that contains 100 characters.

We should not break the word. We have to write inteface and class implementations for Alignment(Right, Left, Center, justify).

TESCO Interviewer : MantoshKumar Gupta / Abhijeet Srivastava

Interview 45

1. Tell me about yourself

2. There is list of employee(id, salary). Sort the list on the basis of salary by decending order.

3. What is functinal interface?

4. How to write lambda expression?

5. What is difference between FlatMap and Map.

6. List of Junit Mockitio Annotations with coding example.

7. How to Create View in Database? Why need view ?

8. Write Order (Create/Update/Delete/Get) Rest Service. Write only sample code method, @Annotations.

Ask many back forth questions in code.

9. How to manage Git

Ask all git command which we are using day by day(Like, clone, add, commit, push)

How to manage conflict if occurs

10. How to manage relationship in JPA/Hibernate

Example, Table User has id and list of email. There is table Email. Each id has multiple email

Write Java code for manyToOne and OneToMany Entity class

1. Write Maven command to build and run project.
2. 1) What is Oops concept And describe it ?
3. 2) Write a program to find duplicate And occurrence ?
4. 3) What is runtime polymorphism And give a example ?
5. 4) What is overloading And overriding concept ?
6. 5) Write a program to reverse a string without predefine methods ?
7. 6) Write a program to find second largest number ?
8. 7) Collection And Collections ?
9. 8) Explain your framework ?
10. 9) Which java concept you are using in your framework explain ?
11. 10) What is page object model ?
12. 11) What is data driven and advantages?
13. 12) What is exception in java And how to handle it?
14. 13) Why String is immutable ?
15. 14)  What is static ?
16. 15) In java multiple inheritance is possible or not ,if not then how to resolve it?
17. 16) Static method can override or not ?

JAVA

1. Create a rest API from scratch for Employee with following operations:
2. Get employee details
3. Create new Employee
4. Update employee
5. Delete employee
6. Search/filter employee

Interview 46

Java interview questions

1. Given a string, find the longest substring which is palindrome.

Ex: ABDCBCDBDCBBC

O/p: BDCBCDB

eyes

white\_check\_mark

heavy\_plus\_sign

2. Given n cans of different measures and box each of a fixed capacity c, try to assign each can to a box such that number of total used boxes are minimized.

It may be assumed that all cans have weights smaller than box capacity.

Input: weight[] = {4, 8, 1, 4, 2, 1}

Bin Capacity c = 10

Output: 2

We need minimum 2 bins to accommodate all items

First bin contains {4, 4, 2} and second bin {8, 1, 1}

Interview 47  
1. Brief Introduction about work.  
2. Project architecture and Flow (Deep Discussion)  
3. Cloud, AWS, Docker, and Kubernetes related discussion  
4. Write Rest Api for product and perform get, delete and post operation.  
5. How to delete data using another field except primary field.  
6. How to perform transaction in spring boot.

7. Write Rest service for Product API

I should be able to add , retrieve and delete products

Interview 48

1. Implementing Google suggestion and showing the result
2. Explaining the approach
3. How we can integrate APIs for showing google suggestions
4. Even though JavaScript is single threaded how it handles multiple requests
5. What is CI/CD and how it works

Interview 49

1) How to remove duplicate elements from list in java8. write snipet of code?

Ex: [13,2,15,22,2, 22]

2) How to find the count of number present in previous list in java8. code snipet?

Eg: [13,1] [2,2] [15,1] [22,2]

3) How to find the pairs of number make sum of 28 in given list?(Can use any collection)

Ex: [13,2,15,22,2, 22]

Result: [13,15]

4) Difference between Spring MVC and Boot. In which aspect we should use MVC?

5) What are the benefits of Spring boot over MVC?

6) A complete flow of RestFul API.

7) An Employee details need to save in DB, write code skeleton till save operation using JPA with RestFul API.

8) What is Spring Batch and job scheduler, why batch is required?

9) Design Patterns worked upon.

10) Explain Singleton design pattern. Ways Singleton can be breech and how that can be prevent?

11) Microservice Design patterns.

12) How can we connect multiple DB in single application?

Questions Tesco Round 1   
Interview 50

1. Static block ,Instance block , constructor difference . When which will be executed and program output .

**public** **class** A {

{

System.***out***.println("Init");

}

A(){

System.***out***.println("Hello");

}

{

System.***out***.println("World");

}

**static** {

System.***out***.println("Welcome");

}

**public** **static** **void** main(String [] args) {

**new** A();

}

}

1. Given two LinkedList<Integer> as

LinkedList<Integer> l1 =[1],[3],[5] -> 135

LinkedList<Integer> l2 =[9],[0],[6] **->** 906

Write sum(LinkedList<Integer> l1 , LinkedList<Integer> l2) method to add elements in these lists .

Eg Take 135 from list 1 and 906 from list 2

And then add them to give sum as 135 +906 = 1041

Can not use Integer.parseInt or Integer.valueOf methods .

1. In above program , store the result ie 1041 back into the linked list of Integer type ie .

LinkedList<Integer> l3 = [1],[0],[4],[1];

1. Test Cases for above program.
2. What happen if negative Integers are added in list or if 3000 values are added in list .

Interview 51

1. Java8 features and current java lt’s version

2. Exceptions handling in spring

Problem statement  
Tesco has around 3200 stores and more than 10% of the stores have around 800 colleagues each. In a store, a colleague can work for multiple departments. Here are shifts of a colleague in various departments: In Bakery department: From 8 to 10  
In Checkout department: From 10 to 12  
In Diary department: From 14 to 19 Given the above split of shifts, implement the method to return the different shifts of a colleague for the day after merging contiguous shifts. This will be exposed to the colleague in different UI and help them plan their day accordingly. His shift timings in this case are 8 to 12 and 14 to 19.public List<Shift> getShiftTimings(List<Shift> shifts)class Shift {  
 int startTime;  
 int endTime;  
};

test cases means for some of the corner cases my code did not work

Questions Tesco Round 1

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**public** **class** A {

{

System.***out***.println("Init");

}

A(){

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And then add them to give sum as 135 +906 = 1041

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1. In above program , store the result ie 1041 back into the linked list of Integer type ie .

LinkedList<Integer> l3 = [1],[0],[4],[1];

1. Test Cases for above program.
2. What happen if negative Integers are added in list or if 3000 values are added in list .

Questions Round 2

1. Customer wants to book a room in hotel . No two customers can book a same room for same dates . Design HLD for the same .
2. LLD for above statement .
3. APIs to be exposed and database entities for above and relation between them .

Interview

1. Explain about latest project
2. Advantages of microservices
3. Purpose of API gateway
4. Purpose of service discovery
5. How to handle scenario where Service A is calling Service B and service B is down
6. What is Actuator
7. How to add custom functionality to actuator
8. How to monitor services, which tools to use
9. If we receive an alert from monitoring that memory usage is at 70% what steps would you take analyze it.
10. Distributed logging in microservices
11. Distributed tracing concepts
12. Explain Oauth2 concepts and how we can generate JWT tokens
13. Spring profiling
14. Rule of thumb when creating JPA entities
15. Serialization, Deserialization and any exceptions faced
16. What to do when we get out of memory error when creating docker image
17. Functional Interface
18. Streams and explain different methods used
19. Convert a list to map using streams
20. How to create an interface in Java
21. Explain about design patterns you have worked.
22. Singleton design pattern and implementation
23. Create an immutable class and handle corner cases

Interviewer Name: Ravi

Interview 52

1. Project Details and roles and responsibilities.
2. Program to sort the string array and efficient way:

String sArry[] = { "9", "4", "two", "5", "10", "7", "three" };

1. Using Java Strem : In list have duplicate names print out the names and counts.
2. Kafa consumers and producers.
3. Rest API methods
4. Spring boot component and class level annotations.
5. Microservice Architecture.

Interviewer : Mantesh  
Interview 53

1. Features of Java 8

2. How to make a class immutable

3. Check employees from a List who has salary > 5 Lakhs & DOJ in 2021

4. Having 2 Integer arrays, how to check elements present in both arrays, and unique elements in first array using streams

5. SQL query to fetch Employee Name & Manager Name from table having id, name, manager\_id

6. Whether worked on Python

7. Started with recent project description and technology stack used

1. Ended with asking if any queries to interviewer

Interviewer-Srinivas

Interview 54

1.More details about my old project.About project configuration and deployment  
  
2.Given two linked list l1,l2  
  
l1 = 1,3,5  
l2=9,0,6  
  
Client wants to concat sum of l1,l2 i.e   
concatenation of l1-> 135  
concatenation of l2->906  
 sum of l1+l2 is 135+906=1041Interviewer's Name: Mallikarjun

 Interview:55

1) Write a program to count the frequency of Strings in the list and print the details using Streams in Java 8.

2) Write a program Sort the elements in a multiple array without using any inbuilt function or collections.

3) Define Spring Bean Life Cycle

4) What are the design patterns used in your project and why.

5) What is Singleton design pattern and how to break it.

6) What is Inversion Of Control

7) Advantages of SpringBoot over Spring

8) Annotations used in SpringBoot

9) What is Observer design pattern

10) Observer Design Pattern vs Event Driven Design Pattern

11) Explain CI and CD process with Docker and Kubernetes

12) Roles and Responsibilities of the project

13) Kafka usage and how you have implemented in your project

14)  Spring WebFlux

15) Agile process

Interview: 56

1. Tell me about yourself?

2. What is Autoconfiguration in spring boot?

3. What is Inversion of Control?

4. What is SAGA Design Pattern.Explain Choreography and Orchestration Design Patterns?

5. How to return XML value instead of JSON in a REST endpoint?

6. Explain SOLID Principles?

7. What are HTTP message converters and explain?

8. How to secure microservices?

9. Coding question. You have denomination array like int[] denominations = {5, 2, 50, 1, 500, 2000, 100} and amount of 5750.

Write a function to return a list of denominations.

Ex.[2000, 2000, 500, 500, 500, 100, 100, 50]

10. Explain the recent project you have done?

11. How Event driven microservices work?

12. Where did you use inheritance?

13. Difference between Abstract Class and Interface?

Mallikarjun.Kokatanur: 2nd round

Interview 57

1. Tell me about yourself?

2. Why do we use Spring framework?

3. Explain Java 8 Features?

4. Given a coding question on testing Java 8 streams on ArrayList of Integers?

5. What is Singleton design pattern?

6. How to break a Singleton class? and how to avoid it?

7. Explain about Factory Design Pattern?and explain where it used in Java?

8. Explain factors to be considered for creating microservices?

9. Design pattern involved in triggering an action on state change?

10. Difference between Observer Design pattern and Event Driven design pattern?

Interviewer name Push Priyadharshi  
Interview 58

1.Tell me about your self

2 latest challenge faced your project

3 which java version you used

4 what the new features in java

5 which module will you start first while starting a Rest ful project

6 what code you will write for spring security(Name some class names and method names)

7 What is spring boot why it is used

8 can you change the below code to Java 8 style

String s=null;

If(s==null){

Sysout("s is null");

}else{

Sysout("s is not null");

}

9. Write code to print natural numbers using 4 threads

Example T1 should print 1, T2 should print 2, T3 should print 3, T4 should print 4 , T1 should print 5 and so on.

Interview 59:

1:- Design immutable class (Specially focus on clone).

2:- Suppose there are two list

List1= {2,3,6,8}

List 2={3,7,8,10}

Write a program which will display common elements in both the list {3,8}

Write a program which will display non Common elements in both the list {2,6,7,10}

3:- There is a class

Class Employee{

Private int emptied;

Private String name;

Private long phone;

}

We want to store this class as a key in hashMap.

Case 1:- What will happen if we do not override equals.

Case 2:- What will happen if we do not override hashCode.

4:- What is @RestController in Spring/SpringBoot

5:-How to dynamically (RunTime) change property in springBoot.

6:- Difference between rabitMq and Kafka.

Interview 60

1: How do you handle Exception in your Project .

2:- Design logging framework for your application.

1-what is difference between monolithic and microservice.  
2-what is drawback of microservice.  
3-In which condition you will use microservice or monolithic app.  
4-design class diagram.  
For example car had hybrid engine and engine may be cng and xfule or petrol and xfule or electric and xflue.  
design rest api of above example.  
5- There is two list. List1=1,2,3,4,5 and list2=2,4,5,8.where a program that return a list with 1,3 value.

Interviewer: Raghu & alex (2nd round )  
Interview 61

1-Explain structure of current project.  
2-What is use case of kafka.  
3-What is hystric sercuit breaker.  
5-Why you are using mongodb in your project what is benefit of nosql.  
6-How your are authenticating you application.Explain in detail  
7-What is aggregrator service.  
8-Where you will use Chain of Responsibility design patten.  
9-How your are scaling your appication.

Interviewer: Baskar

Interview 62

1st round

1. What is the design of your last project.

2. What is CAP and how postgres falls in that.

3. Some questions related to microservice design pattern.

4. Why noSQL database is used? What is sharding?

5. Design a singleton class and try to break it. Create an immutable class.

6. Write a microservice with the basic CRUD operations using Spring Boot.

2nd round

1. Show the architecture of the last project that you have worked upon.

2. How kafka is used in your architecture and what is the methodology of using the same.

3. What is redis and how consistency is maintained.

4. What alternate DB can be used instead of postgres in your application.

5. Questions based on all the services used in the architecture.

Panel: George

-tell about previous project experience

-write the chess board game program using any IDE.

-what is dependency injection and its implementations

-write the answers to some operations performed on a sample arraylist given by interviewer using Streams

-difference between map and flatmap in Streams.

Panel : Prince George

package com.test;  
import java.util.List;  
public class Students {  
    ​  
public static void main(String[] args) {​  
List<Exam> scores = List.of(new Exam("001", "Maths", 35.5, 1),  
new Exam("002", "Maths", 75.5, 1),  
new Exam("003", "Maths", 55.5, 3),  
new Exam("004", "Maths", 60.5, 2),  
new Exam("001", "Chemistry", 85.5, 1),  
new Exam("002", "Chemistry", 22.5, 1),  
new Exam("004", "Chemistry", 84.5, 2),  
new Exam("005", "Chemistry", 19.5, 3),  
new Exam("006", "Chemistry", 55.5, 2),  
new Exam("001", "English", 81.5, 1),  
new Exam("002", "English", 91.5, 1),  
new Exam("003", "English", 77.5, 3),  
new Exam("004", "English", 69.5, 2),  
new Exam("005", "English", 45.5, 3),  
new Exam("008", "English", 43.5, 1),  
new Exam("003", "Physics", 71.5, 3),  
new Exam("001", "Physics", 91.5, 1),  
new Exam("004", "Physics", 52.5, 2),  
new Exam("006", "Physics", 42.5, 2),  
new Exam("003", "French", 38.5, 3),  
new Exam("007", "French", 39.5, 1),  
new Exam("003", "Economics", 44.5, 3),  
new Exam("004", "Economics", 98.5, 2));  
//Find the student with the highest score in Chemistry  
//Find the first year student with the highest score in English  
//Create a list of studentids who appeared in Physics in ascending order of their score  
//Find the lowest score in Maths, Economics and French combined  
}​  
static class Exam{​  
String studentId;  
String subject;  
double marks;  
int year;  
public Exam(String studentId, String subject, double marks, int year) {​  
this.studentId = studentId;  
this.subject = subject;  
this.marks = marks;  
this.year = year;  
}​  
}​  
}​

------------------------------------------------------------------------------------------------------

Question#2

Design a chess program.

Panel : Prince George

Design a chess program.

Interviewer: Prince George

1) What are the Roles and Responsibilities in current project.

2) Current project Architecture.

3) Explain java 8 feature which are using in current project.

4) Design patterns are using in current project.

5) Why we have to go for microservices and advantages.

6) How you design a cricket game in IDE(i.e cricbuzz),From Toss to winning,score update.

(Interviewer: Anup)

1. Discussed my precious project.  
2. procedures/patterns to convert monolithic to microservice.  
3. How naming conventions are maintained in your microservices.  
4. Difference Between HashMap and TreeMap. And the internal working of it.  
5. How to take the object as a key in TreeMap and how TreeMap sorts the object key.  
6. How to identify the performance of an application  
7. What is profiling.  
8. How to code quality and testing is done in your previous project.  
9. Explain the complete flow of a request in a microservice architecture.

Interviewer : Abhishek

Interview 63  
What is java 8 functional interface.  
What is difference between map and flatmap.  
How to schedule a request in kafka.  
How do u deploy application on server  
How to work with jenkins  
What is difference between store procedure and function in mysql  
Knowledge on docker or kubernates  
What are the design patterns you had worked on  
What is SAGA design pattern  
What is the security you had implemented in your previous project.  
Do you have knowledge about webflux  
Java program: Show repeated character in string.

Interviewer: Abhishek

Interview 64  
1. Any idea on reactive streams.  
2. What is the difference between design principles and design pattern.  
3. Do you any design patterns.  
4. Do you know Clear Code design pattern.  
5. Explain solid principles with examples.  
6. Explain the saga patterns.  
7. Write a program using stream, to find the sum of the employee sal with employee age is greater than 15.  
8. How security is implemented in micro services.  
9. How Docker file will work.  
10. Communication between one micro-service to another using feign clients.  
11. Did you implemented any performance tools in your project?  
12. How you migrate your monolithic project to micro-services  
13. CI/CD pipeline for micro-services

Panel: Abhishek

Interview 65

1. Explain about your project architecture in detail
2. Explain in details how you implemented security in your project
3. Explain about solid principles and how you implemented in your project.
4. Explain about some microservice based design pattern that you used in your project.
5. What is docker and kubernetes and what is your expertise into that.
6. What are java1.8 new features and explain about those.
7. Some programs has been asked to solve by using java 1.8(Ex: How to get max salary employee details from an list of employee)