we have two tables customer and order ,write an sql query to find customers who have orders more than the average order?  
How you save data in multi tenant environment?  
what do you understand by multi tenancy?  
Have you implemented any logging mechanism in your project?  
How code integration works in your project ?  
How you will handle the scenario where multiple request are trying to upadte certain data with proper response  
through api?  
Suppose we have ceratin scheduled job running for 1000 users in our application and also we have to deal with api requests  
how you will handle this scenario that your api respond without delay?  
Describe kafka architecture ?  
Is latency period in kafka configurable ?  
How you handle fault tolerance in your project ?  
How autoscaling in pods happen ?  
how kafka is different from other messaging queue?  
is kafka scalable ?  
how you handle large no of user traffic at your application?

=====================================================

1.Explain about previous project in detail and cross questions regarding production issues and solution used  
2.Write program to ignore case and Identify duplicate Json Keys from the below json data  
{      field1:string,      field2:int,      Field1:double,      field3.uniqueId:string,      field3.UniqueId:int}  
3.Following question to above – remove duplicate json key and send back new json response  
4.explain design patterns used in previous project  
5.Basics of jenkins pipeline script.  
6.Questions related to improving performance of spring batch(For example if the data which is to be loaded is in GB/TB) and entire code flow of spring Batch (edited)

1.Create a Spring Boot application that manages a library system. Implement REST endpoints to allow users to borrow and return books. Ensure that a book cannot be borrowed if it's already borrowed and cannot be returned if it's not borrowed.

output of following snippets

2.public class Question1 {

public static void main(String[] args) {

System.out.println("Hello" + null);

}

}

3.public class Question {

public static void main(String[] args) {

String s1 = "Java";

String s2 = "Java";

System.out.println(s1 == s2);

}

}

4.public class Question {

public static void main(String[] args) {

try {

System.out.println("Hello");

System.exit(0);

} finally {

System.out.println("World");

}

}

}

5.public class Question {

public static void main(String[] args) {

String str = "Java";

str.concat(" Rules!");

System.out.println(str);

}

}

6.class Base {

void show() {

System.out.println("Base");

}

}

class Derived extends Base {

void show() {

System.out.println("Derived");

}

}

public class Question {

public static void main(String[] args) {

Base base = new Derived();

base.show();

}

}

7.Given a list of products with names and prices, you want to find the total price of the products whose price is greater than a certain threshold. use java8

8.Write a Java program that demonstrates communication between two threads using wait and notify.

9.Imagine you are building an e-commerce platform that allows users to make payments for their purchases using various payment methods, such as credit card, PayPal, and cryptocurrency. Your goal is to implement the payment processing system which can accepts various payment methods

which behavioral design pattern can be used how we can implement?

10.Create a Spring Boot application that manages a library system. Implement REST endpoints to allow users to borrow and return books. Ensure that a book cannot be borrowed if it's already borrowed and cannot be returned if it's not borrowed.

11.What is dependency injetion

12.write correct sql order of following-->

select orderby limit having groupby from where

13.difference between wait and sleep

14.synchronous and asychronous

15.if prototype bean is used in singleton bean.does it works or throws error

16.try block is returning some value and finally block is returning some value then which value is returned?

17.what is workflow?trainings and inference

18.How multiple transactions are handle in application?

19.how strings stored and its imutability?

20. Write a pgm of swaping 2 numbers without using temp.

21.check weither the word ABCFG exists or not?

[

[A B C C]

[D E F G]

[A K C A]

]

constraint: the next character will be adjustant to character. Like if "E" is the character then we can consider D,B,F,K as a next character.

Work on-

1)Project archtecture and design pattern used in previous project.

2) Analyze problems algorithmically and utilize algorithmic tools or strategies.

3) Design a solution and break it down into various layers. Concepts like entities and controllers and their mapping to specific layers .

4) Basic concepts like inheritance and exception handling. Intermediate concepts like multithreading.

5) data integrity and exception handling.

6) Kafka.

7) Multi tenancy concept

8)SQL Queries.

9) REST API’s-security , handling high load of requests.Rest api and microservices deep understanding concepts.

10)Core Java program with syntax.

**Girraj Singh**

1. find the odd numbers from given array{1, 4, 8, 40, 11, 22, 33, 99};

2. Why we need to use optional class in java

3. How to define generics if we don't know the response type?

4. what is the output of given programs:

package overridingPrograms;

public class A

{

private void m1()

{

System.out.println("m1-A");

}

}

public class B extends A

{

private void m1()

{

System.out.println("m1-B");

}

public static void main(String[] args)

{

B b = new B();

b.m1();

}

}

5.

package overridingPrograms;

public class A

{

public final void m1()

{

System.out.println("m1-A");

}

}

public class B extends A

{

public void m1()//

{

System.out.println("m1-B");

}

public static void main(String[] args)

{

B b = new B();

  b.m1();

}

}

6.

String s1 = "abc";

String s2 = "abc";

String s3 = new String("abc");

System.out.println("s1 == s2 ? " + (s1 == s2));

System.out.println("s1 == s3 ? " + (s1 == s3));

System.out.println("s1 equals s3 ? " + (s1.equals(s3)));

7.

public class Question1 {

   public static void main(String[] args) {

       System.out.println("Hello" + null);

   }

}

8. how many dependency injection in details

9. if have two entity with same name in different packages while autowaring how to get a particular entity instance.

10. can you create our own custom LinkedList

11 how to find mid element from linked list, way of getting mid element from linked list.

12. Linked list vs arrayList in details  when will prefer which one and why?

13. can you right code to find the mid element from array, use binary search

14. How to enable autoconfiguration in spring boot.

15. Create a Spring Boot application that manages a library system. Implement REST endpoints to allow users to borrow and return books. Ensure that a book cannot be borrowed if it's already borrowed and cannot be returned if it's not borrowed.

16. sleep, wait, notify notifyAll differences.

17. chow to communicate one microservice to other.

18. difference between get, put and patch

19. difference between where and having clause

**Juli Kumari**

* Difference between Hashmap and HashTable
* Difference between Angular and Angular JS
* Difference between Thread and normal programming
* Program to sort array-  Input array   =  [0, 1, 0, 1, 0, 0, 1, 1, 1, 0] Output array =  [0, 0, 0, 0, 0];
* Difference between arraylist and linkedlist
* Project related questions
* How the conversion happens fro SOAP to REST apis

**Shambhavi H S**

1. Questions on Design Patterns : Doubleton
2. How to configure beans in Spring. Setter-based, constructor based
3. Folder structure of Spring boot
4. Program to reverse singly linked list
5. Program to removed duplicates from a given String Array irrespective of the case. Ex: {'app1','App1','app2','app3','aPp3'}
6. Program to print numbers in an Array whose sum is equal to zero. Ex: {3,-3, 0,4,5,-4,2}

Vineet Kumar S

1)Kafka Architecture

2)Kafka Topics ,how partitions are done and offset .

3)Explain with an example Kafka consumer and producer?

4)Current project how you are using Kafka?

5)How is cluster configured?

6)Explain design pattern used in previous project with an example.

7)Design a solution and break it down into various layers. Concepts like entities and controllers and their mapping to specific layers.

8)What is CI/CD process .Explain it in detail.

9)Program to calculate the shortest route and best fare using REST API and JAVA.

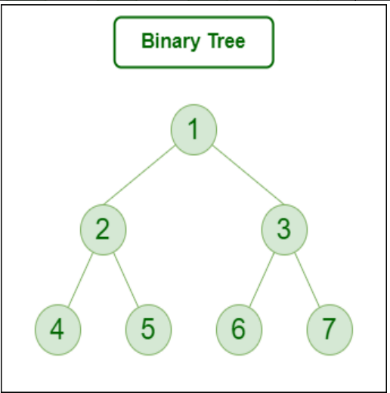
10)Develop a REST API to get the employee details.

11)What is Kubernetes and what is the use of POD?

12)How do you use Autoscaling?

Neeraj Kumar

1. What is Circuit breaker.
2. How to provide user with appropriate error message when server is down or any other microservices is failing when user is sending request.
3. How to implement different types of failure through circuit breaker.
4. What are the different types of circuit breaker pattern.
5. Explain the backend implementation of any one pattern.
6. Find role up node for binary tree. Find the children nodes.



1. Write program to find a number which is divided by 3, 5 and both by 3 and 5

**2nd Round**

1. Explain about your project architecture, tech stack and your role and responsibilities.

2. Can you give me an example of monolithic application which is better than microservices.

3. Microservices way of communication

4. Can you explain the cons and pros of microservices, **give an example of cons**

5. Design a architecture for following requirement

            DB has several tables.

            Each table has billions of records.

            You need to build a service which will take these params.

            Table Name

            Duration

6. Spring Bot features

7. Pagination concept, searching, sorting in pagination.

Sharad Dutta

1. How is java8 different from the previous versions?
2. Functional interfaces and stream API. Use of Predicate , Function etc.
3. Changes introduced with Map in java 8.
4. Microservices: benefits and advantages.
5. When to opt for Microservices architecture?
6. Handling huge no. of requests with microservices.
7. Spring Batch and spring Security.
8. System design: e commerce app like Amazon with microservices approach
9. Authentication and Authorization mechanisms like OAuth, JWT
10. Single signon
11. Cache management – cache eviction, configurations

3rd Round

1. How was your last two round?
2. Tell me about your project technologies and your roles?
3. How many companies you are switched, currently your IBM employee or not, when you joined IBM?
4. Tell me about your previous SAP project and any working challenges , how is your manager and team members.
5. How to handle millions of record customer request and response.
6. Tell me about your last project what was your contribution, can you right number of API which you have written in your project and write API end points.

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