**How to handle a authentication using rest?**

The most simple way to deal with authentication is to use HTTP basic authentication. We use a special HTTP header where we add 'username:password' encoded in base64.

**final,fianlly, finalzed?**

final is a keyword that is used to apply restrictions on a class, method, or variable.

* The class with this keyword cannot be inherited.
* The method with this keyword cannot be overridden.
* The variable with this keyword cannot be changed.

finally is a block used to place important code that will be executed whether or not an exception is handled.

finalize() is used to perform clean-up processing just before the object is collected by the garbage collector. In Java, the finalize method in a class

**customized exception?**

you can have your own exception and message

class InvalidAgeException extends Exception{

 InvalidAgeException(String s){

  super(s);

 }

}

class TestCustomException1{

   static void validate(int age)throws InvalidAgeException{

     if(age<18)

      throw new InvalidAgeException("not valid");

     else

      System.out.println("welcome to vote");

   }

**try with resources?**

Try(Scanner scanner = new Scanner(new File(“src/file.txt”))){

While(scanner.hasNext()){

}

}

Catch(FileNotFoundException exception){

}

**Extenalization?**

Externalization is used whenever we need to customize serialization mechanism. If a class implements an Externalizable interface then, object serialization will be done using writeExternal() method. ... At the receiver's end, the serializable object is reconstructed using ObjectInputStream\

**Serialization? How to i dont want some of the records then what should i do?**

It is a mechanism of *writing the state of an object into a byte-stream*.

*The transient keyword in Java is used to avoid serialization. If any object of a data structure is defined as a transient , then it will not be serialized. Serialization is the ​process of converting an object into a byte stream.*

**Deman thrads? how to create deaman threads?**

*Daemon thread is a low priority thread (in context of JVM) that runs in background to perform tasks such as garbage collection (gc) etc.,*

*setDaemon() method*

**Yeild method?**

*A yield() method is a static method of Thread class and it can stop the currently executing thread and will give a chance to other waiting threads of the same priority. If in case there are no waiting threads or if all the waiting threads have low priority then the same thread will continue its execution.*

**why wait(), notify(), notifyAll() methods are object class?**

*If wait() and notify() were on the Thread instead then each thread would have to know the status of every other thread and there is no way to know thread1 that thread2 was waiting for any resource to access. Hence, notify, wait, notifyAll methods are defined in object class in Jav.*

**functional interface? how to create? how to use?**

*The functional interface is a simple interface with only one abstract method. A lambda expression can be used through a functional interface in Java 8. We can declare our own/custom functional interface by defining the Single Abstract Method (SAM) in an interface.*

@FunctionalInterface

interface CustomFunctionalInterface {

   void display();

}

**Optional in how to convert list of objects?**

List<Fruit> fruits = asList(new Fruit("apple"),

new Fruit("grape"),

new Fruit("orange"));

Optional<Fruit> found = find("lemon", fruits);

if(found.isPresent()) {

Fruit fruit = found.get();

String name = fruit.getName();

}

**Streams? sequential stream and parallel stream?**

*A stream in Java is a sequence of objects which operates on a data source such as an array or a collection and supports various methods.*

*streams that use a single thread to process the pipelining. Any stream operation without explicitly specified as parallel is treated as a sequential stream.*

***stream()****method returns a sequential stream.*

*even if the whole program may not be parallelized. Parallel stream leverage multi-core processors, which increases its performance*

[*parallelStream()*](https://www.geeksforgeeks.org/what-is-java-parallel-streams/)*method of****Collection****interface.*

**what all are annotation used persistence?**

@Entity

@Table(name = "employee")

@Id

@Version

@Column(name = "employee\_name")

@GeneratedValue(strategy=SEQUENCE, generator="ID\_SEQ")

@OrderBy("id asc")

@Transient

@Lob

How to sort list employeees to get below 20 age and get names(based on names)

List<String> list = Stream().filters(employee -> employee.getAge()>20).Collect(collectors.toList());

How sort using comparator and comparable using java8?

**Is it possible to final class apply hibernate?**

*Yes, a Hibernate Entity class can be declared final, however it is not a good practice. Hibernate uses the proxy pattern for performance improvement during lazy association, by making an entity final, Hibernate will no longer be able to use a proxy as Java doesn't allow the final class to be extended.*

**GET methods is idempotent or not?**

*GET , HEAD , OPTIONS and TRACE methods NEVER change the resource state on server. They are purely for retrieving the resource representation or meta data at that point of time. So invoking multiple requests will not have any write operation on server, so GET, HEAD, OPTIONS and TRACE are idempotent.*

We have two entities how to get bugstatement using hiberante

@Entity

@Table("User")

public class user(){

id,name;

}

@Entity

@Table("bug")

@ManyToOne("id")

public class user(){

id, userid, bugstatement

}

A text file contain below snippet how to read and each character i need to print to the next line.

1/2/3/4

5#6#7#8#9

q,a,z,x,c,d,e,r,f,g,h

i-7-o-l-p

**How to handle exceptionhandlers?**

the two main approaches to handling exceptions in a Spring MVC application were HandlerExceptionResolver or the @ExceptionHandler annotation.

 we've had the @ControllerAdvice annotation

@ControllerAdvice **public** **class** **RestResponseEntityExceptionHandler** **extends** **ResponseEntityExceptionHandler** {

@ExceptionHandler(value = { IllegalArgumentException.class, IllegalStateException.class })

**protected** ResponseEntity<Object> **handleConflict**( RuntimeException ex, WebRequest request)

{

String bodyOfResponse = "This should be application specific";

**return** handleExceptionInternal(ex, bodyOfResponse, **new** HttpHeaders(), HttpStatus.CONFLICT, request);

} }

How to get a call one api to another api using restful and how to call third party api?

How we can findout one of the microservices is down?

How to provide loggers configuration in microservices?

how to read a multiple text files

hot to read index a file using streams

when we will go parallel stream

springboot repository

springboot repository queary

how to get current month records using hql

how to handle service goes down one of the microservice

what all are spring annotation

why autowire annotation

If in database some records are deleted how to find the issue.

Testsuite and test cases

how Functional interfaces are deriving normal interfaces.

Hiberanate entity have final class is it correct or not

singleton class how to serializable

Hackerrank:

arithmetic sum operations

regix program

rectangle, circle program using inheritence

12 factors of microservices?

About SpringBoot?

About easyMockito?

Maven lifecycle?

We have employee table contain list of department how to get based on deptid get emp list?

(using stream of stream and flat method)

what is the use of map in streamAPI?

how to handle null pointer exception in java8?

If we are not providing isPresent() in optional what will happen?

Why linked list is insertion and deletion is faster then arraylist?

Hash set to add two duplicates id's emp.id not list, what will happen?

(list wont allow why means it will override equals method and hashcode method)

BinarySearch program how it will work?

Print second frequance largest number and remaining should print sor?

How to synchronize a method without synchronized keyword

Managerial round:

Explain about yourself with educational and career?

Disadvantages of the microservices?

Which project is difficult in your career? why?

storedprocedures

triggers

diff sql and nodejs

JPA

Singleton class?

Design patterns?

OOPS concepts?

Given a string, that contains special character together with alphabets (‘a’ to ‘z’ and ‘A’ to ‘Z’),

reverse the string in a way that special characters are not affected.

Input: str = "ab,cd$e"

Output: str = "ed,cb$a"

List of Strings to findout ASCII values using java8?

CRUD operations using SpringBoot application?

Explain about MVC architecture?

Difference between Put and Patch ?

How to convert list to map and how to iterate list of string using java8?

What is loadfactory? how it will work?

int arr[] = {3,5,6,4};

Need output is 7

int sum = 0;

int n = arr.length;

for(int i = 0; i < n; i++){

sum = sum + arr[i];

System.out.println(sum);

}

springboot

student- repo

id, name, dept, addr

H2database

endpoint

create

update

retrive

based on name,dept

Array arr[]= {2,3,5,3,2,5,6,7,3,2} find max element using java8?

Map<Integer, Integer> map = new HashMap<Integer, Integer>();

for (int i : a) {

Integer count = map.get(i);

map.put(i, count != null ? count+1 : 1);

}

Integer popular = Collections.max(map.entrySet(),

new Comparator<Map.Entry<Integer, Integer>>() {

@Override

public int compare(Entry<Integer, Integer> o1, Entry<Integer, Integer> o2) {

return o1.getValue().compareTo(o2.getValue());

}

}).getKey();

Write code in your favoruite programming language to print the "Van Eck Sequence" for the first 100 positions.

Sequence is defined as below:

You start with number 0 at the first position.

For the next number, if you have seen the number at current position before,

the next number is the distance between current position

and the position where you saw this number before.

If you haven't seen this number before, print 0.

So, you start with 0. You haven't seen 0 before, so next number is also 0.

But, now the next number is 1 --

because you saw 0 at position 1 and position 2.

You haven't seen 1 before,

so next number is 0.

You saw 0 at position 2 and position 4,

so the next number is 2. And so on...

0, 0, 1, 0, 2, 0, 2, 2, 1, 6, 0, 5, 0, 2, 6, 5, 4, 0, 5, 3, 0, 3, 2, 9, 0, 4, 9, 3, 6, 14, 0, 6, 3, 5, 15, 0,...

Here's a related video: <https://www.youtube.com/watch?v=etMJxB-igrc>

How to store a 10000 recordes into databse using rest api jpa springboot application how to overcome the performance?

What is the defference between failfast and failsafe?

Difference between Runnable and Collable interface?

What is the marker interface?

Write a functional interface and It will allow multiple default values, what is the output below method?

interface ABC{​​​​​

public abstact int sum(int a,int b);

default string getName(string name){​​​​​

return name;

default int sub(int a,int b){​​​​​

return a-b;

}​​​​​

WAP List of emp contain eagal account and retrun emp list?

Difference between PathParam and QuearyParam?

Difference between TDD and BDD ?

Abstract class allows final methods or not?

private constructor allows or not?

Interface constructor allows or not?

Exceptions super class have Exception and subclass contain child exceptions are allowed or not?

Difference between Linkedlist and ArrayList?

where did you used hashmap in your project what is the purpose?

Internal implementation on HashMap?

How it store index in hashmap and why keys are second time repeatedly?

what is the default server is springboot and how to switch one server to another server?

How to enable and disable the actuator?

how many servers support springboot?

Get is idempotent or not why?

--->Idempotent means it should be same response.

SQL Injection?

Queary Optimization?

How Spring is loosely coupled?

How autowired will work loosely coupled?

Difference between concurrenthashmap and hashmap?

What is the failfast?

How to avoid duplications reading in a file?

Set set = new HashSet();

      while (sc.hasNextLine()) {

         input = sc.nextLine();

         if(set.add(input)) {

            writer.append(input+"\n");

         }

How to read a file?

Public class File{

Public static void main(String [] args){

BufferedReader reader = new BufferedReader(new FileReader(“src/file.txt”));

While((curLine = reader.readLine())!=null){

System.out.println(curLine);

}

reader.close();

}

}

String file = “src/file.text”;

Path path = Paths.get(file);

List<String> lines = Files.readAllLines(path);

Types of Spring scopes?

Difference between Singleton scope and request scope?

Wap to sort employee of the list using name?

Wap to add list of employees to arraylist?

**Why to Override equals(Object) and hashCode() method?**

1. First, find out the right bucket using hashCode().
2. Secondly, search the bucket for the right element using equals()

**Interface will allow the constructor or allow the private constructor?**

No interface wont allow the constructor.

**Abstract class allow the private constructor or not?**

Yes,Abstract classes can have constructors! ... Though we cannot create an object of an abstract class, when we create an object of a class which is concrete and subclass of the abstract class, the constructor of the abstract class is automatically invoked

SpringSecurity?

OAuth in microservices?

What all are securities provided in your application?

SpringBatch?

public class Customer {

private String name;

private int points;

//Constructor and standard getters

}

customer having more then 100 points

List<Customer> cust = list.Stream().filter(customer -> customer.getPoints>100).collect(Collectors.toList);

BeanScopes what all are analysis is requied?

Two microservices contain debit amount , one account amount deducted and stored another account mistakenly what you will do?

For your application having performance was slow then how to increase the performance?

Max Highest frequence number to retun integer value int getMaxRepeatedNumber(int[] arr) for this which algortihem you will follow?

Given a string, that contains special character together with alphabets (‘a’ to ‘z’ and ‘A’ to ‘Z’),

reverse the string in a way that special characters are not affected.

Input: str = "ab,cd$e"

Output: str = "ed,cb$a"

String str = "ab,cd$e"

String revStr = "";

String specialCharacters = "@!#$%^&\*()";

Map<Integer, Character> map = new HashMap<>();

Char charectar =str.toCharArray();

for(Char c : character){

if(specialCharacters.containsKey(c)){

}

}

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

revStr = revStr + str.charAt(i);

return revStr;

}

How to call specific bean in the class?

How to write custom queary in jpa?

What is the use of serialversionUUID?

In Generic type I want to get number what I need to provide?

How to sort list of employees based on id ?

Employees.sort(Comparator.comparing(e-> e.getId()));

or

Employees.sort(Comparator.comparing(Employee::getempId));

How to get second highest salary in sql?

Differents between Hashmap and concurrent hashmap?

Write a Queary empname

Deptname two tables how to fetch through the name from the employee table?

select Employee.empName, Department.deptName from Employee

Inner Join Employee ON employee.empId = department.deptId;

Write a queary they are emplid, name,city, salary,deptId fileds in employee table

How to get city and emplcity count?

Write a two operation two APIs using restcontroller , create employee, get emplid?