**Gayu interview ques**

1. What is hash code? Can we override and return same hashcode for two different objects? What is the contract between hashcode and equals() method.
2. There are 7 ways you can iterate through List.
   1. Simple For loop
   2. Enhanced For loop
   3. Iterator
   4. ListIterator
   5. While loop
   6. Iterable.forEach()
   7. Stream.forEach()
3. The contract between equals() and hashCode() is:

* If two objects are equal, then they must have the same hash cod.
* If two objects have the same hash code, they may or may not be equal. ... The efault implementation of hashCode() in Object class returns distinct integers for different objects
* If we override equals() method then we have to override hashCode() as well.

1. What is Generics - Generics deals with type safe object & code reuse and A class that can refer to any type is known as a generic class.
2. What are the methods to create a Thread?
3. convert string to int without built in funcitons - refer eclipse code
4. print tree strcture of number - refer eclipse code
5. Stream & parallerstream? stream print the string in order but not the parallerstream becuase it works non-sync
6. Explain life cycle of thread. - new, active, blocked/waiting, timed waiting, terminate
7. wait & sleep
8. Explain webservice. What are the types of web service? WSDL is SOAP or Restfull?
9. WSDL (Web Service description Language) defines the operations, message formats and transport details for the SOAP message. REST -> REST(Representational state transfer) is based on the Transport. Unlike SOAP which targets the actions, REST concerns more on the resources.
10. **Why spring framework is very famous?**
11. exceptionhanlder in spring boot? @Exceptionhandler & @AdviceHandler
12. depenedency management:
13. advice concept:
14. global exception:
15. Api versioning:
16. @primary & @qualifer
17. orchestration in microservcies
18. containers in microservices
19. Explain about join in SQL.Write a query for outer join. join the data in both tables mentioned.
20. Tell about procedures,Sequences and triggers.
21. Query to retrieve maximum salary in each department in a company. Select max(salary) from company;
22. how to maintain transaction
23. aggregate functions

**Some questions about SONAR code quality management. What do you mean by quality code?**

SonarQube (formerly Sonar) is an open-source platform developed by SonarSource for continuous inspection of code quality to perform automatic reviews with static analysis of code

A quality code is one that is clear, simple, well tested, bug-free, refactored, documented, and performant. ... Key metrics to measure the quality of code are reliability, maintainability, testability, portability, and reusability.

1. **Remove duplicates in the list custom object**

private List<MyObject> unique(List<MyObject> list) {

List<MyObject> uniqueList = new ArrayList<>();

Set<MyObject> uniqueSet = new HashSet<>();

for (MyObject obj : list) {

if (uniqueSet.add(obj)) {

uniqueList.add(obj);

}

}

return uniqueList;

}

1. **Query to find the second largest value in sql:**

SELECT MAX (column\_name)

FROM table\_name

WHERE column\_name NOT IN (SELECT Max (column\_name)

FROM table\_name);

5.Find the dynamic number( in case 2) highest value from the table in sql:

SELECT TOP 1 SALARY

FROM (

SELECT DISTINCT TOP 2 SALARY

FROM tbl\_Employees

ORDER BY SALARY DESC

) RESULT

ORDER BY SALARY

bulk upload -> update employee set salary = (Select salary from employee where salary <= 5000);

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SOLID principles:

https://www.baeldung.com/solid-principles

https://www.javatpoint.com/solid-principles-java

**maven scope:**

provided: JDK or containers provide depenedency at runtime

runtime: It indicates that this depenedency is not required at compile time but required at runtime

test: It indicates that the depenedency is not required for normal use of application and it is only available for the test compilation & execution phases.

system: This is similar to provided but we have to provide the jar path explicitly in systemPath tag. It will not look up the maven repository. It is deprecated

import: This will only supported when type tag value is pom in dependencyMaanagement section.

ACID pro:

https://maven.apache.org/guides/introduction/introduction-to-dependency-mechanism.html

Advantages of JSF framework? – d

What are the views in ClearCase? – d

1. promiseajax?

**Interview quest**

static variable

y using enumeration

what is pojo class and advantage

what is container

what is SSL

what is URN

what is rest api

what is URI

what is resource in Rest

status code

what is 201 status code

disadvantage of RestApi

what is JSON

data types in JSON

Log4j

What is assert class in junit

Why we can't create test cases for static , private , final

Disadvantage of mokito

Can we create test protocated method

What is use of appender object

what is trace

Log4j vs slf4j

perfomance tuning in sql

function,procedure, trigger

primary key,forieng key con,unique key const

joins

normalization

alias

entity vs relationship

content negotiation

wora- wrie once read anywhere- java independent

webcomponent

what is servlet,

what JSP

what is MVC

phases in spring

what r the diff parts in https response

JX-WS

SOAP VS REST

WSDL- Web service desciption language

what is diff btwm html ,xml

what is DOM

what is jersey

ant scrit

gradle vs maven

gradle wrapper

what is postman

what is the component in http request

3 types of testing in swagger

== vs === in javascript

Mediatype in html

Weblogic vs application logic

What is ibm websphere

What is connecters in tomcat

Servlet life cycle