Interview questions

**Spring, Spring Mvc , SpringBoot and Spring Ioc**

What is spring boot

Advantages of Spring boot

Diff bet @RestController and @Controller annotations

Autowiring and its Types

Spring bean life cycle

Steps to create rest API

Get, post, put, delete and patch method

Diff bet put and patch

What is IOC

What is Dependency Injection and its type(setter, constructor and field)

Diff bet setter and constructor deoendency

What is bean and scope of bean

@primary and @qualifier annotations

Exception handling in spring

Spring MVC annotations

Diff bet spring MVC and Spring Boot

Spring boot annotations

What is SOAP and RESt diff bet them

What is spring security

Flow of MVC

What is webservices or benefits of web services

Json to java

Advantages of Spring MVC and its features

Diff bet @component and @componentScan annotation

Spring actuator

How to validate Spring MVC

Profiles in spring boot

Executor framework in java

What is AOP

Diff bet session factory and application context

Circular dependency

How will configure multiple datasource in spring boot

write a program for collection type dependency injection

how to import one xml file into another file

what are the diff ways of creating autowired class

how to input from user in IOC

in how many ways can handle exception in Spring

inner bean and outer bean scope

diff bet singleton and mvc design pattern

how to run spring boot application

by using which method in springboot we can sent request to the front end

Did you create Rest service explain

How to authenticate in spring boot

What are mapping used in jpa

If I want to update or delete in postmapping then what will happened it will get error or run

Why we used 400 error code

Why we used apache tomcat server in our application

What is application server for deployment

How will get the record in rest api

Return type of put method

How you will create requestbody in put method

How you will configure multiple datasources in springboot

If bean not found then what to do

How many type of container in java

**Core java**

Immutable Class

Singleton class

Constructor chaining

method chaining

copy constructor

Diff bet Heap and stack memory

diff bet constructor and method

break and continue statements

diff bet static and non static method

class loader

what is garbage collector

how does the constructor work

what is design pattern and explain

what is static and its uses

what is reflection API in java

how can we make singleton pattern synchronized

What is factory design pattern

What is final, finally and finalize

Difference Instance and static

**Collections**

Diff bet arraylist and vector

scenario on map explain its object type scenario

what is Map

scenario to pick linklist over arraylist

copy on arraylist

internal working of hashamap

hash collision

diff bet arraylist and linklist

diff bet comparable and comparator and suitable example for both

write code to iterate map

how to get map element given in the the map

diff bet hashmap and hashset

diff bet hashmap and vector

hierarchy of collection

diff bet map and collection

diff bet arraylist and set

diff scenario on hashmap

diff bet hashmap and hashtable

How get mehod will callin hashmap

What is the syntax for iterating hashamap

What are interfaces in collection

Diff bet set and arraylist

Algoritham used in hash collision

What is the concurrent hashmap exception

Hashset internal working

While iterating hashamap if we add another object what will be the output

Hashmap is thread safe or not

Locking mechanism in concurrent hashmap collection

How we can remove arraylist dupliates if w don’t know any value or index of that element

Null insertion is possible for hashmap and cchm

Fail fast and fail safe iterator

Use of treeset

**OOPs and other**

OOPs concept

polymorphisam

abstraction

diff bet Abstract class and interace

diff bet Overloading and overriding

pillers of OOPs

Composition and aggreagation

can we access properties of parent and why

inheritance

what is the different scenario considering polymorphim

dynamic polymorphism

what is loose coupling

what is class and object

OOPs real time example

diff scenario of overriding

diff scenario of overloading

Why we use super keyword in constructor

Diamond problem In java

Customized singleton class and it is possible to access class instance in another class

When we make constructor as private the what will be the effect of private constructor

When constructor is autotype then what will happen

What will be the effect when constructor maked a protected

What happen when we make class as private

**Java 8 Featues**

functional interface

stream API

what are different featues of java 7 and java 8

Featues of java 8

Changes in java 8 in collection

How to sort employee data by using employee in stream api

Diff bet functional interface and normal interface

How to break the word using stream api

**java.lang.package**

contract bet equal and hashcode method

what is hashcode and equal method work

how does string memory allocated

what is SCP and explain its diff scenarios

diff bet equals method and == operator

string scenario

memory of string

diff bet stringbuffer and stringbuilder

how will string do mutable

write a program to unduplicate character

write program to reverse a string

write a program for string palindrome

Root class of all java class

How many ways to create object

How many methods in object class

**Hibernate**

primary and entity class

composite primary key

diff bet lazy loading and eager loading

update and merge method diff

diff bet load and get method

what is cache mechanism

how to handle session in project

advantages of hibernate over jdbc

code to configure database in hibernate

what is transaction

explain inheritance in hibernate

how to create a proxy object of hibernate

without hitting the database how to get data from database

why does the hibernate came

what the diff bet basic datasource and driver manager

What is session.begintransaction in hibernate

How you can map in hibernate explain mapping in hibernate. Have you used in your project

What is the use of cascade in mapping

One to many mapping

How to map many to many mapping in java

How to create more than one primary key in entity class

**Exception**

diff bet throw and throws

explain diff scenario considering exception

what is user defined exception and do write a code of user defined exception

explain diff scenario of try catch and finally and differences in flow using return type.

hierarchy of exception

Try with resources

How will you define customized exception

What are exception types

Example of checked and unchecked exception

**Serialization**

what s serialization

What is volatile keyword

Transient keyword

What is synchronization

How to handle when multiple user access only single instance

**MySQL**

diff bet inner join and left join

write query to findout second highest salary of an employee

do write the example of stored procedure and consumer

what is inner join and outer join

write a query to copy one table into another table

write a query to copy column from one table to another

Diff bet drop delete and truncate

Normalization in database

What is view in database

What is cursor in database

What is use of groupby clause

How to find second max salary from employee table

What is function and prodedure in databse

Join in sql

What is inner ,left , right and full join

What is stored procedures in sql

What is ddl and dml language

What are the ddl language opearations

**Multithreading**

What is thread pool

Types of thread pool

Callable interface

What is runnable and callable interfaces

What methodology you are following I project

build management tool

source control

which is version you have used

if in list there is 5,3,7,8,x... then what is the value of x and how to find it

what is thread and how we implement thread

when multiple static block id given then which block will be excecuted first if above is given method and below is the main method then which method will be executed first.

Logging

Explain your project in detials with programming logic

Explain your work flow in your project from front end to database

What happen when you log in your project after login what options you get

Did you come across any changes in your project with respect to your applications loading problem

Your work methodology model

How long generally your sprint time/point in your project

How do you estimate the time to give for your story in project on what parameters you calculate time

What version control you are using I n your workspace

Are aware of github command

What backend you used for database

Diff bet string and stringbuffer

Find sum of array element

How will check value b=20 present or not in array

How will you get requirement for project

How will you build and deployment.

What is double check

What is object logging

Which type of unit testing do you have perform in your project

Interceptiors

Doccer

Git flow