**Index**

1. **By jaya-**

**-telephonic interview**

1. **By Ankur**

**-CTS ,exception**

1. **By Rahul**

**-DBS**

**-InnoMinds**

**-L&T Tech**

**-Exception Questions**

**-MultiThreading Questions**

**3>By Deepak**

**4>By Divik**

**­­-Terasoft**

**-Well Ferno**

**-TeraData**

**-Angular Question**

**-Cognizant 1st round**

**5> By Amit**

**-Telephonic interview discussion with lead**

**-Real time Java, Spring ,Hibernate**

**6> By Pradeep : persisternt,hexaware,teradata**

**Exception Questions**

**Q. Can you throw any exception inside Lambda Expression?**

**Q. What is Exception chaining?**

**Q. What changes have been included in JDK7 related to exception handling in java?**

**Q. What is ClassCastException in java?**

**Q. Can we keep the statement after finally block if the control is returning from the finally block itself?**

**Q. What is difference between ClassNotFoundException and NoClassDefFoundError?**

**Q. What is unreachable catch block error?**

**Q. Have you facedOutOfMemoryError in java? How did you solve it?**

**Q. Does finally block get executed if either try or catch blocks are returning the control or JVM Exit?**

**Q. What if no method in call stack handles the exception?**

**Q. Can we override a Super class method which is throwing an Unchecked Exception with Checked exception in the SubClass?**

**Q. What is the similarity between NullPointerException and ArrayIndexOutOfBoundException in Java?**

### **Q. What happens when exception is thrown by main method?**

### **Q.Can we have an empty catch block?**

Read more: <https://javarevisited.blogspot.com/2013/06/10-java-exception-and-error-interview-questions-answers-programming.html#ixzz6NLk4jsFV>

### 1) What is wrong with following Java Exception code:

public static void **start**(){

   System.**out**.println("Java Exception interivew question Answers for Programmers");

}

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

**try**{

      start();

   }**catch**(**IOException** ioe){

      ioe.printStackTrace();

   }

}

### 2) What is wrong with following code in Java:

public class *SuperClass* {

    public void **start**() throws IOException{

**throw** **new** IOException("Not able to open file");

    }

}

public class *SubClass* extends *SuperClass*{

    public void **start**() throws Exception{

**throw** **new** Exception("Not able to start");

    }

}

### 3 What is wrong with following code :

 public static void start() throws IOException, RuntimeException{

**throw** **new** RuntimeException("Not able to Start");

 }

 public static void main(String args[]) {

**try** {

          start();

    } **catch** (Exception ex) {

            ex**.**printStackTrace();

    } **catch** (RuntimeException re) {

            re**.**printStackTrace();

    }

 }

**5) What is the problem with the below code?**

**import** **java.io.FileNotFoundException**;

**import** **java.io.IOException**;

**public** **class** **ExceptionInterviewQuestion\_01** {

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

**try** {

multiple();

} **catch** (FileNotFoundException | IOException ex) {

e.printStackTrace();

}

}

**public** **static** **void** **multiple**() **throws** IOException, FileNotFoundException{

System.out.println("Inside multiple");

}

}

**6) What does the following program will print?**

**import** **java.io.FileNotFoundException**;

**import** **java.io.IOException**;

**import** **javax.sql.SQLException**;

**public** **class** **ExceptionInterviewQuestion\_01** {

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

**try** {

test();

} **catch** (IOException e) {

e.printStackTrace();

} **catch** (FileNotFoundException e) {

e.printStackTrace();

} **catch** (SQLException e) {\

e.printStackTrace();

}

}

**public** **static** **void** **test**() **throws** IOException, SQLException, FileNotFoundException{

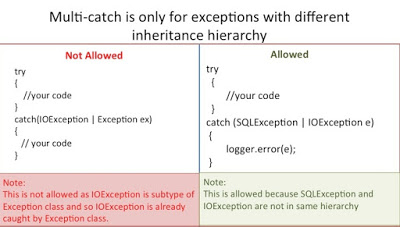
System.out.println("Inside test() method");

}

}

**7) What does the following program will print?**  
  
import java.io.IOException;  
import javax.xml.bind.JAXBException;  
  
public class TestException2 {  
  
    public static void main(String[] args) {  
        try {  
            foo();  
        } catch (IOException e) {  
            e.printStackTrace();  
        }catch(JAXBException e){  
            e.printStackTrace();  
        }catch(NullPointerException e){  
            e.printStackTrace();  
        }catch(Exception e){  
            e.printStackTrace();  
        }  
    }  
  
    public static void foo() throws IOException{  

System.out.println(“foo method”);  
    }  
  
}

**8) What does the following program will print?**  
  
public class TestException3 {  
  
    public static void main(String[] args) {  
        try{  
        bar();  
        }catch(NullPointerException e){  
            e.printStackTrace();  
        }catch(Exception e){  
            e.printStackTrace();  
        }  
           foo();  
  
    }  
  
    public static void bar(){  
  
    }  
  
    public static void foo() throws NullPointerException{  
  
    }  
  
}  
  
**9)  What does the following program will print?**  
hint: - Channing value of Exception Object in multi-catch block  
  
import java.io.IOException;  
import javax.sql.SQLException;  
public class ExceptionInterviewQuestion\_06 {  
  
    public static void main(String[] args) {  
        try {  
            foo();  
        } catch (IOException | SQLException e) {  
            e = new Exception("");  
            e.printStackTrace();  
        }catch(Exception e){  
            e = new Exception("");  
            e.printStackTrace();  
        }  
    }  
  
    public static void foo() throws IOException, SQLException{  
  
    }  
  
}  
  


**Created by Ankur**

CTS

1. why java does not support multiple inheritance.
2. What is byte code
3. Why java is platform independent language
4. What are jvm parameters
5. What are class parameters
6. Difference between class and classpath
7. Explain OOP concepts in detail.
8. What are SOLID principles
9. How GC works explain with any algorithm
10. What is young generation & old generation for ur application
11. List down java 8 features
12. Singleton design principles
13. Double level locking in Singleton design principles
14. Difference b/w overriding & overloading
15. Rules of exception in overriding
16. What is method hiding
17. How do u create a singleton class
18. Give some examples of singleton class in java
19. Multithreading (All related question process thread threadPriority)
20. Difference b/w wait notify notifyAll methods
21. How many objects of String class is created
22. How string constant pool is maintained
23. Difference b/w string stringBufferstringBuilder
24. Can u override static method in java
25. Difference b/w Interface & Abstract class
26. As we can’t create object of Abstract class then Why we have constructor for it
27. WAP to find 2nd highest no in array
28. Difference b/w transient & volatile
29. When static variables are loaded & at what places ?how to access static methods
30. Consider the class A having static method another class B we creating an object only reference & trying to access with this access method then what will happen
31. Explain exception handling
32. How the exception occur
33. What are the scenarios in which exception may occur
34. Difference b/w throw & throws , checked & unchecked exception
35. Difference b/w final finally finalize
36. How to create custom exception
37. How to handle multiple catch
38. In what condition finally block wont execute
39. Can we have empty catch block
40. What happen below

Try{

m();

}catch(EOFException | IOException){}

1. Explain collection hierarchy
2. Why map interface is not part of true collection
3. How hashmap works internally
4. Importance of hashcode& equals method
5. Difference b/w hashmap 7 concurrent hashmap
6. How arraylist works internally
7. In what scenarios we use set
8. When to use hashmap or treemap
9. Scenarios in which collection classes are used
10. Difference b/w comparable & comparator
11. When to use comparators using lambda expression
12. What is concurrentModificationException& how to avoid it
13. Difference b/w failfast& failsafe.

**---------------------------------------------------------------**

**DBS Interview**

Q. Explain about static Keyword in java ?

Q. What advantage Overloading and Overriding adds?

Q. What advantage Dynamic Polymorphism adds.

Q. Write a code to create Immutable class?

Q. Explain about Exception Handling?(All)

Q. Write a code to sort Employee Object based on Id.

Q. What Advantage Collections adds?

Q. Explain how ConcurrentHashMap works Internally ?

Q. Scenario based questions on Collection.

Q. What is Serialization?

Q. All about MultiThreading ?

Q. In what scenario you go for Threading?

Q. Difference between Abstract class and Interface?

Q. Advantages of Abstract class and Interface?

Q. What Abstract class can do and Interface can’t do or

What Interface can do and abstract class can’t do ?

Spring

Q. What all Components of Spring Have you worked?

Q. Explain DI and IOC How are they releated?

Q. Explain Spring AOP?

Q. Explain Transaction Management.How did you implemented in your Application ?

Q. What is Difference between @Component and @Service ?

Q. Explain about Spring security?

Q. How did you connect to DB?

Q. What is Spring boot?

Q. Create a simple Spring boot Application.

Q. Explain Spring bean Life Cycle?

Q. Explain What is DispatcherServlet ?

Q. Explain how did you validate user in your application?

Q. What is JWT tocken ?

Q. Explain about REST Architecture ?

Q. How do you check coding standards ?

Q. How do you checks if there are Memory leaks?

Q. Do you write Junits ? What frameworks do you use?

Q. Tell me some best practices while Designing REST API’s ?

Q. What is most technical difficult challenge you ever faced?

Innominds Interview Experience

Q. Write code to compare two objects Using comparator?

Q. In which scenario we will use Comparable and in which scenario we will us Comparator ?

Q. Write code to create Immutable class? And what if the class has Instance Reference?

Q. Write code to swap two numbers without using third variable?

Q. What is preferred Synchronized method or synchronized block?

Q. What’s wrong with using HashMap in a Multi –threading environment ?

Q. Do all properties of Immutable objects need to be final ?

Q. Overriding a hashCode() method have any performance implication ?

Q. What is difference between Factory and Abstract-Factory patterns ?

Q. Suppose you have Threads T1 , T2 , T3 .How will you ensure that thread T2 run after T1 and thread T3 run after T2.

Q. How will you awake a blocked thread in java ?

Micro services

Q. According to you what are micro services ?

Q. Advantages and Dis-advantages of micro services ?

Q. What is Difference between RESTful web services and SOAP web services ?

Q. How to create Simple Spring boot Application?

Q. Explain what are the Spring boot Starters ?

Q. What do Dev Tools in Spring boot means ?

Q. Would we be able to use Spring boot with applications which are not using Spring ?

Q. What is AutoConfiguration in Spring boot?

Q. @GetMappingVs @RequestMapping ?

Q. What does @SpringBootAppliction annotation do internally ?

Q. How to exclude any package without using the base package filter ?

Q. How to enable/disable the Actuator ?

Q. How do you perform End to End Testing ?

Q. How do you call one API service from Another ?

Q. How do you deploy your code on servers ?

Q. How do you know the code is following all coding standards?

Q. What is Sprint Review ?

Q. Do you follow Agile? Explain what is it?

HR

Q. Why are you looking for Job change ?

Q. How long will you work for us ?

Q. Are you attending the interview of other companies as well ?

L&T Infotech

Q. Tell me About Yourself ?

Q. What is your day to day Activity?

Q. Explain how did you validate user in your application?

Q. How did you create cache in your Application?

Q. What is Flyweight Design Pattern?

Q. Why do we create jars what benefit it adds?

Q. What is Encapsulation? How do you achieve it?

Q. What all do we need to run the Java application? (Like JDK , JRE ,JVM).

Q. Explain the Singleton Design Pattern?

Q. What Advantage Collections adds to java?

Q. What all Collections have you worked?

Q. Write a code to override hashCode() and equals() method?

Q. What happen if we not properly override hashCode() and equals() method ?

Q. What is Advantage of Methods in Interface?

Q. Explain switch with String and what benefit it is providing?

Q. How Try with Resource work internally?

Q. What all Exception we need to handle and why?

Q. Explain how to create a Custom Exception?

Q. Can we access static methods using null reference of the class?

Q. How do you find the given number is the Highest, First highest, Second highest or Third highest Number in the given unsorted Array?

**Spring**

Q. On what all Modules of Spring have you worked?

Q. Explain IOC?

Q. What is Autowiring?

Q. What is difference between concern and cross-cutting concern in Spring AOP?

Q. What are the different Advice types in Spring?

Q. Explain Spring AOP proxy?

Q. Explain Join Point, Point Cut?

Q. What is Difference between Spring AOP and AspectJ AOP?

Q. What makes Spring boot Special?

Q. Difference between @Controller & @RestController?

Q. Explain how Transaction Management works in your Application?

Q. When do you use @Qualifier annotation?

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

Deepak Data

Q-- I am going through your resume you have 3+ years experience can briefly describe your role

and responsibilities?

A-- I am full stack developer, My responsibilities are to develop code, develop unit

test-cases, and peer code review.

Q-- Do you have any experience about front end technologies like angular and react?

Q-- How do you rate yourself in java,spring& spring boot and hibernate out of 10?

Q-- Can you expalain in detail what are all oop concept?

Q-- can you expalin what is exception handling and what kind of exceptions we need to handle.

Q-- what kind of exceptions we need to handle explicitly?

Q-- what is runtime and complie time exceptions? why they are divided in such a way?

Q-- which keyword we used to thow the exception?

Q-- what is the difference between throw and throws?

Q-- can we use throw in try bolck?

Q-- what are the collection you have explicitly work?

Q-- can you explain in detail how hashmap works?

Q-- can you tell me what are all the features of hashmap?

Q-- In which scenario we go for hashMap?

Q-- can we create our own hashmapclass?without extending map and hashmap.

Q-- if extending map interface than what are the methods we need to override if create our own hashmap?

Q--explain static keyword in which we can use that?

Q-- can a class can be static ?

Q-- are the static class and nasted class is same?

Q-- whar is singleton class?

Q-- how can create our own custom singleton class?(using singleton keyword).

Q-- what is immutable class?

Q-- what is immutable in java?

Q-- have you ever work on string,stringbuffer,stringbuilder?

Q-- on what modules you have worked on spring?

Q-- what is spring boot?

Q-- what is the difference between ioc and depandancy injection?

Q-- what is autowiring?

Q-- how many types of joints are there?

Q-- what is inner joint?

Divik Area- 51

**Divik Questions Area**











1)ByReflexionApi , 2)de-serialization, 3) Cloning



Explain about singleton and double checking lock

When evergetInstance method called asynchronously, chances that two object is created for that purpose we must have double check



By taking the example of hashmap what roll they place and retrieve the object from hashmap

On relative condition, whenever two hashcode’s are equal there are chances are objects may not be

Equal but if objects are equal hashcode must be equal.















What framework of thread, what is importance of thread why should we go for multithread and which scenario we go for multithreading.



Hashset internally works on hashmap create own hashset





E:\ScreenShot\Screen Tut\2020-05-20 at 00-23-02.jpg





Spring support two type programmatic and declarative and which scenario which one use.



E:\ScreenShot\Screen Tut\2020-05-20 at 00-26-23.jpg



@controllerAdvice and customize classes imbuild spring classes to handle the exception



What will happen If you take scope of child class and what scope child class take.

E:\ScreenShot\Screen Tut\2020-05-20 at 00-32-16.jpg

Explain the jdbc and what difficulty and what advantage it got.



To keep It simple hibernate create proxy like it is a sub class instead of quering database directly.

Proxy will load the read object from database whenever method is called







Three relationship in hibernate 1) one to one 2) one to many 3)Many to many

E:\ScreenShot\Screen Tut\2020-05-20 at 00-39-17.jpg

Wheather to load child object for loading the parent object itself or not we need to settings in mapping file like lazy = true it will not put child class related to parent class

Default lazy loading is true.



Different states are transient, persistence and detached.



1>Compiled and validation at startup time itself

2>Easier to maintain then string literal imbedded in code.





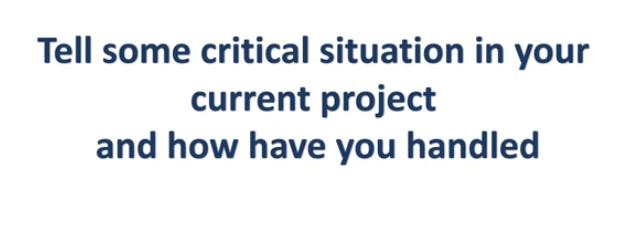
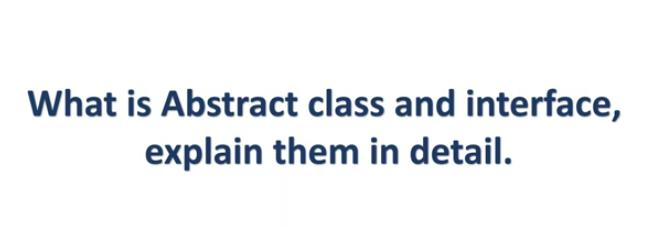
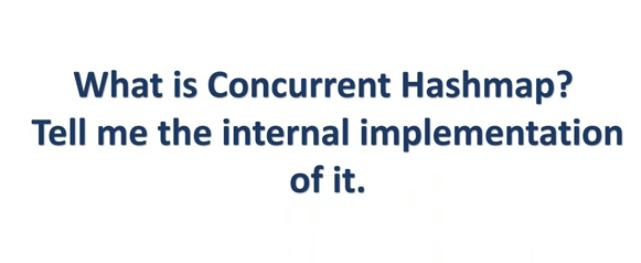
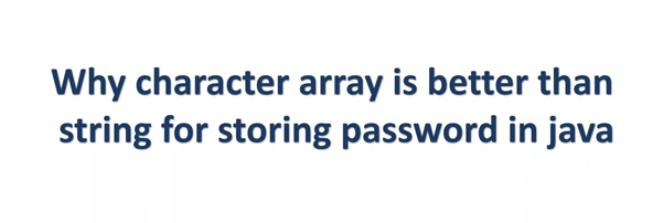
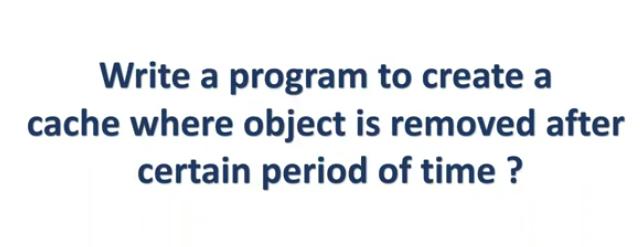
E:\ScreenShot\Screen Tut\2020-05-20 at 00-49-03.jpg

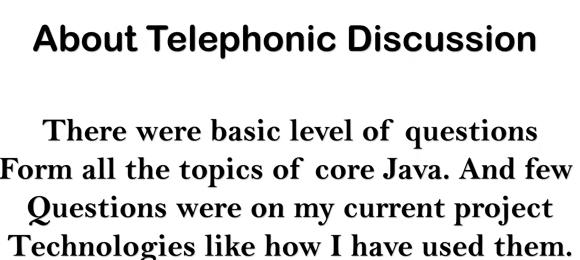
We basically support the client and client side also have architect we are just service provider company

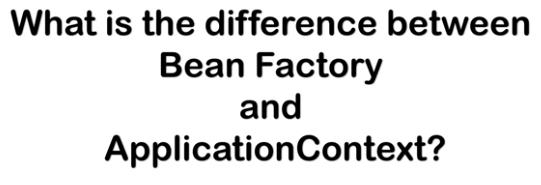
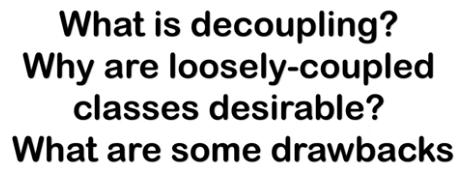
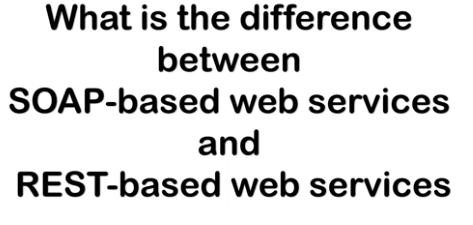
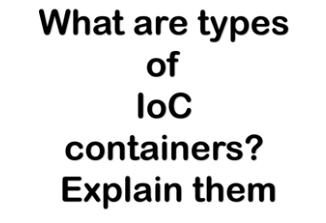
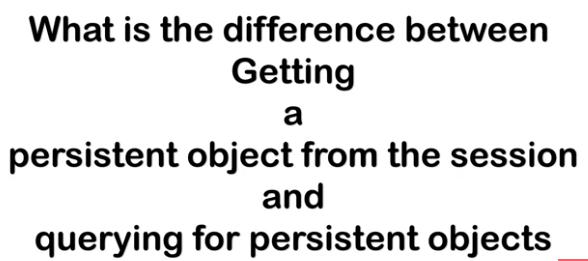
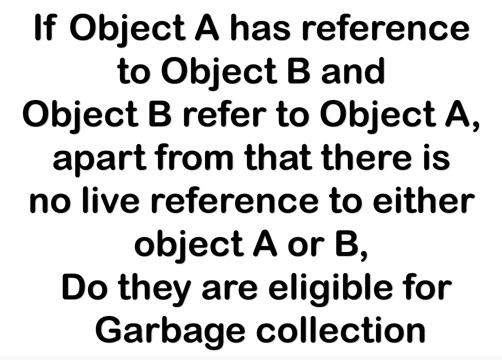
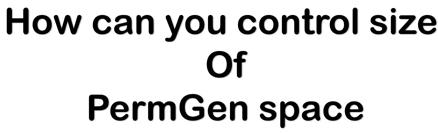
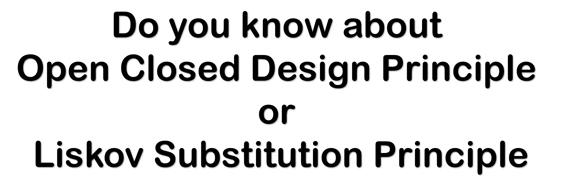
Who is just following there guide lines and build as per requested by client.

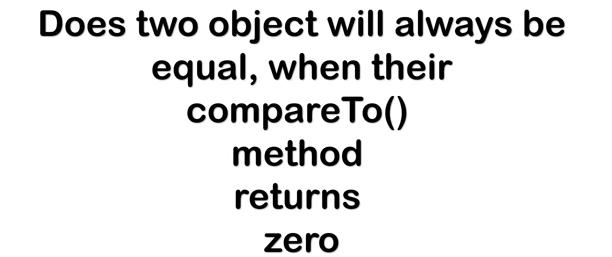
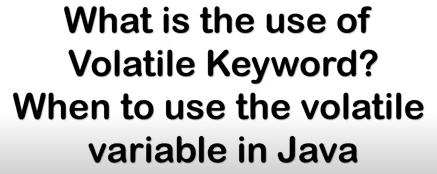
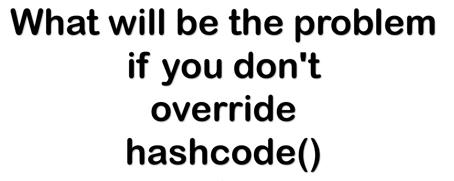
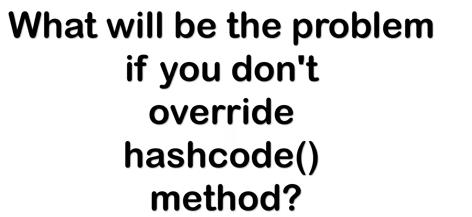
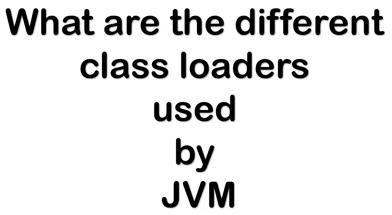
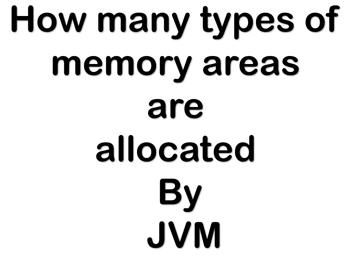
But that is not complete.



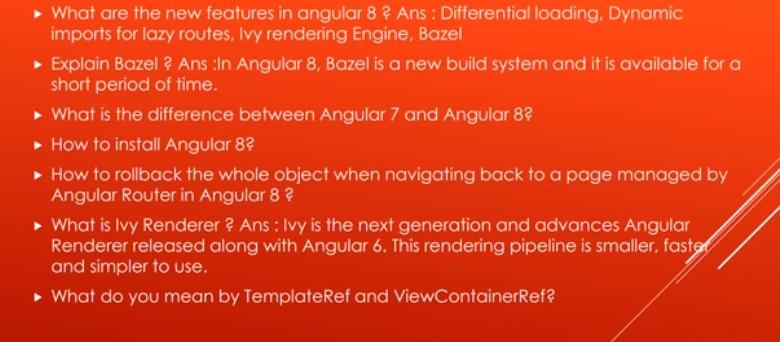
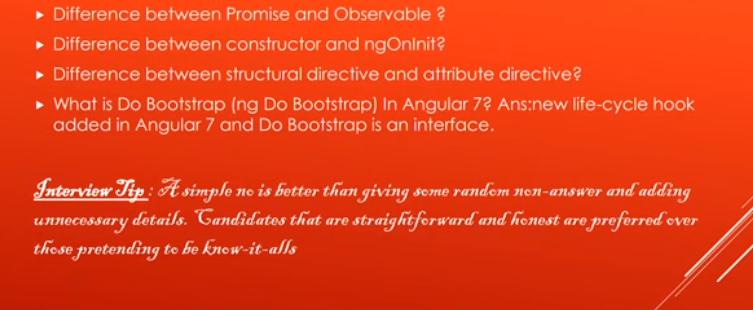




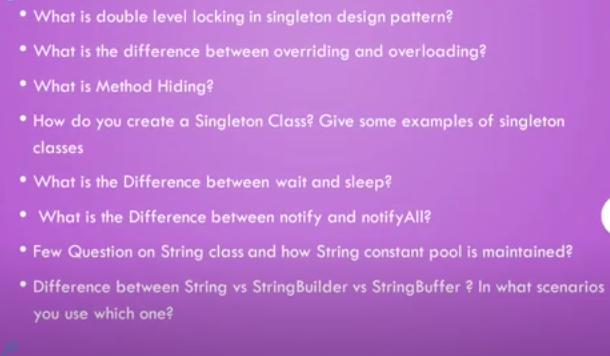
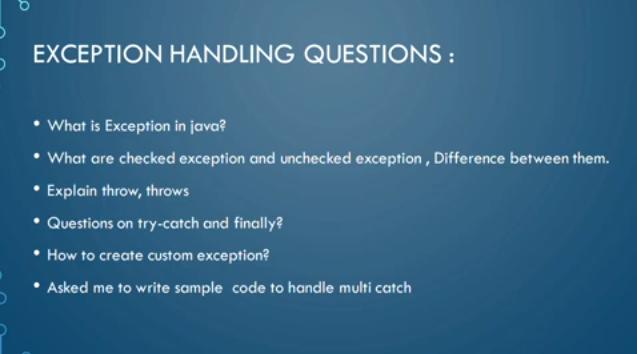
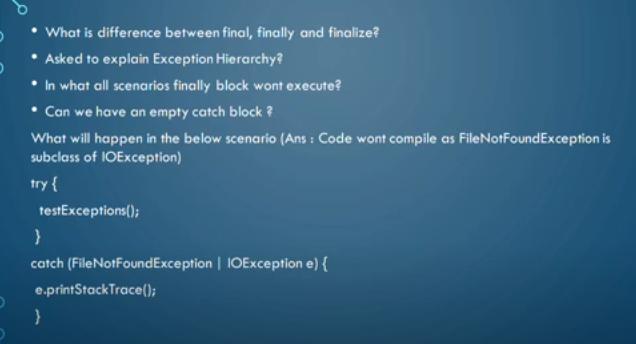
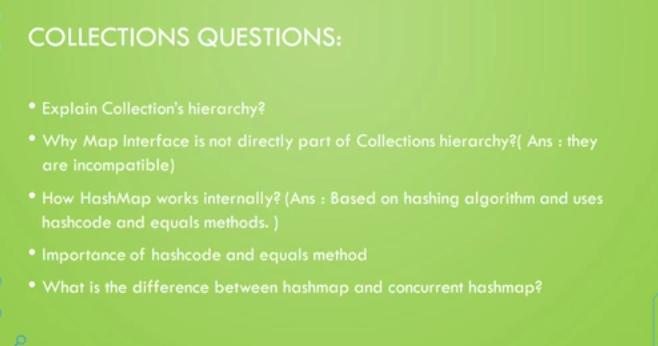
E:\ScreenShot\Screen Tut\2020-05-24 at 17-32-49.jpgE:\ScreenShot\Screen Tut\2020-05-24 at 17-29-50.jpgE:\ScreenShot\Screen Tut\2020-05-24 at 17-28-42.jpgE:\ScreenShot\Screen Tut\2020-05-24 at 17-28-25.jpgE:\ScreenShot\Screen Tut\2020-05-24 at 17-14-51.jpg



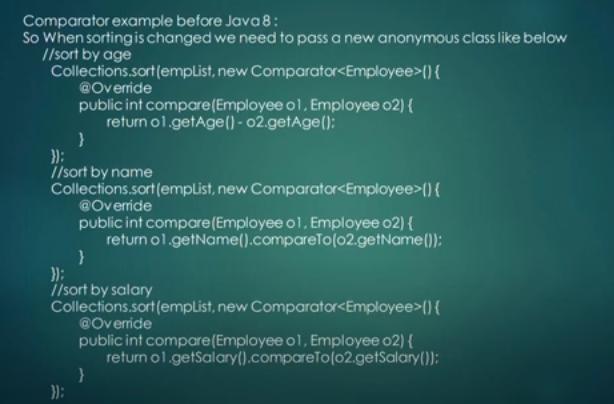


E:\ScreenShot\Screen Tut\2020-05-26 at 09-40-45.jpg









**Real time Java, Spring ,Hibernate**

Whats are the oop concept in java in details ?

What collection classes you have work frequently ?

Explain hash map and arraylistsenerio and features ?

What is String constant pool ?

Difference between String buffer and String builder and which will have a good performance ?

What is immutable class ?how to create it ?

What is singleton in java ?

Difference between singleton in java and singleton in Spring ?

Difference between Abstract class and Interface?

Feature of java 1.8?

What is functional interface ?

Difference between comparable and comparator ?

What is Spring boot ?

What are the modules of Spring ?

What is Dispacter-servlet in spring ?

What is DI ?  
what is IOC ?

Scopes of Spring ?

What is Autowiring ?

Anotation you have work in Spring ?

Difference between @controller and @RestCOntroller ?

What is Hibernate ?

What is Configuration and Mapping file ?

What is Exception ? Difference b/w Exception and Error ? And how do handle it ?

What are restful services ?how to create it ?

What are the implementation oyu have used here ?

What do u mean by PUT,POST,GET,DELETE ?

What is HTTP status ?  
what is Angular ?

When should we have use Angular ?

What is 2 way binding ?

What is UI file ?

What is new anular6 ?

What is Lazy loading ?

Life cycle hookup in Anular ?and what are they ?

Few command of git ?

Why you are using in jeera ?

How many types of Joins ? Brief it ?

What is Sprint ?

Difference between water fall and Agile ?which is better ?

When do u have meeting ?

**Telephonic interview discussion with lead**

Why do u want to change ?

What are the configuration and properties file use in Spring ?

How do you connect with the database and configurations ?

If we want to implement the 2 types of services like Synchronous and Asynchronous service in Spring ?

If You get a response from database and get a huge data and u receive it so how do you receive the data and handle it and store it ?

Difference between default and Protected modifier?

How you trace the request and response is coming and going ? do you have any audit ?

Coading Standards are you follow ?while writing the codes ?

**MICROSERVICES**

How do you converted json into xml ?or another formate ?

Have you work on SOP services ?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-

**Persistent interview question**

Q why there is two type of Exception ?

Q makeA immutable class ?

Q Explain Internal logic of object creation ?

Q What is static contructor ?

Q Define excpetionhanding ?

Q Define memory area in jvm?

Q Define rest services?

Q Explain DI And IOC ?

Q Diff b/w Application context and Bean factory

Q Difrrent modes of autowiring

Q Transaction Handling in Spring

Q Scope of bean in Spring

Q What is Dispatcher Servlet Andcontextloaderlistener

Q Explain about aop

Q How we configure hibernate using Spring

Q Define cfg And hbm file

Q What is hibernate

Q Anotation in hibernate

Q opensession v/s currentsession

Q What is hibernate proxy and lazy loading

Q Design pattern

Q What is function of swagger in spring boot

Q coding practices

**Hexaware interview questions** Q What are various way to break singleton behavior

Q Why there is constructor in abstract class

Q What is swagger in spring boot

Q String buffer vs String builder

Q object oriented language vs Object based language

Q list vs set

Q explain Serilization

Q Diff b/w serial garbage collector and parallel garbge collector

Q various memory Area in java

Q vector v/s Stack

**Teradata interview question**

Q does two object will always be equal when there compareto() return 0

Q tell me about framework to manage threading

Q volatile keyword

Q tell me about refrences available in java

Q how get method works in java

Q what happens if you don’t override hashcode method (in case of equals())

Q classloader in java

Q different memory area in jvm

Q How can you control the size of permGen Space

Q explain design patterns

Q solid principal

Q write a code to make singleton class and threadsafe

Q explain hibernate architecture

Q explain session and sessionfactory interface

Q how to load data in sesseion in hibernate

Q how serilization works in detail

Q what is rest services

Q diff b/w rest An soap

Q vaious ioc contailner in spring

Q advantage of di

Q @controller ,@requestMapping

Q beanfactory V/s Application factory

Q annotation based configuration explain it

Q Wat is looselycouple

Q how to prevent sql injection

**Telephonic Interview- I by Jaya**

**Telephonic Interview-I**

1. What are your role and responsibilities in the project?
2. Why you want to switch your job?
3. What are the properties file and configuration file in spring?
4. How do you connect to database?
5. What are the configuration you make to create database connection in spring?
6. We have the requirement of implementing two types of services synchronous and asynchronous. How will you implement it?
7. You got a response from database or UI service in the form of large amount of data. Now tell me how you handle or receive that data?
8. What are the differences between protected and default access modifiers?
9. Locking framework? How do you track request and responses?
10. Tell me which coding standards you follow in your application?
11. Agile process
12. What are all assemblies and daily ceremonies do you have?
13. Not audible
14. Microservices 1 is calling 2 and 2 is calling 3. There is change in business layer. Their calling sequence also changes. Then how you implement it without so much coding?
15. Not audible(api repository something)
16. How you convert json into xml.
17. Have you ever work with sop?
18. Have you ever given some creative ideas?

**Multi-threading Questions**

**Q. What is difference between start() and run() methods of Thread class?**

**Q. What is difference between Runnable and Callable interface? Or What is difference between run() and call() method?**

**Q. What is volatile variable in java?**

**Q. Which synchronization is best Block or Method and why?**

**Q. What is difference between notify() and notifyAll()?**

**Q. What to use notify() or notifyAll()?**

**Q. Why wait() , notify() and notifyAll() Called from Synchronized block or method only?**

**Q. Why wait() , notify() and notifyAll() are present in Object class?**

**Q. How do you share data between two threads?**

**Q. What happen when an Exception occurs in thread class?**

**Thread comman Questions**

**Q. What is Thread?**

**Q. What is Process?**

**Q. Difference between Thread and Process?**

**Q. How can you implement thread in java?**

**Q. When to use Runnable Vs Thread in java?**

**Q. What is Synchronization?**

**Q. Types of Synchronization?**

**Q. What is race condition? How to overcome it?**

**Q. Which Synchronization is best? And Why?**

**Q. What is deadlock?**

**Q. How two processes can communicate with each other**

**Q. What is Scheduling and what are its type?**

**Q. When thread goes in to blocked states?**

**Q. What is Daemon thread?**

**Q. Key instance Methods of Thread?**

**Q. Native thread Vs Green thread?**

**Q. What is Selfish thread?**

**Q. What is Preempting?**

**Q. What is Monitor?**

**Q. Why daemon threads have higher priority then normal thread?**

**Q. What is lifecycle of a thread? Which are different states of thread?**