**Core JAVA**

1. Expalin about Exception Hierarchy?

2. Better way to create HashMap Key?(cross questions)

3. How you can achieve Security through Encapsulation? Type of security?

4. String, StringBuffer,StringBuilder differences?

5. Life cycle of thread?

6. Is it possible to write concrete method in the interfaces?

7. Explain about OOPS?

8. How can you provide lock to block of code? (Asked to write code)

9. Explain about Assertions? How can you enable or disable assertions?

10. Will you enable or disable assertions at the time of production? Why?

11. Explain about Object class?

(For every question they will ask to write bit of code)

**Hibernate**

Explain components of hibernate?

Advantages of hibernate?

Flow of hibernate from Configuration to session. Close ()?

**Spring**

Explain MVC flow?(in this they will ask cross questions)

Types of Controllers, ViewResolvers, Handlers?

Which view resolver you prefer? Why?

Need of form backing or command object?

**Web service**

Where we can use the web service explain with scenario?

Explain flow of web service?

1) What is the difference between HashMap and Hashtable?

2) Exception handling hierarchy ?

3) what is difference between Collection and Collections?

4) Collection framework hierarchy?

5)write a code on Singleton design pattern?

6) how to make normal class as a immutable class?

7) write a code on Method overloading and method overriding?

8) What is the difference between wait() and sleep()?

9)How many ways to create a thread class?

10)what is the difference between web server and application server? Web server is part of application server why we need go for web server?

11) Difference between HttpServlet and GenericServlet?

12)what is abstraction,ploymorphism and Inheritence with real time examples?

13)what is synchronization? with examples?

14) difference between final ,finally and finalize?

15) difference between throw and throws keywords?

16)what are checked and uncked exceptions?

Springframework

1) In which spring version are you used in your project?

2)what is Dependency injection with real time example and types of dependency injections?

3)What is autowiring and types of autowiring?

4)spring life cycle?

5)what is difference between BeanFactory and ApplicationContext container?

6)Spring mvc working flow?

7)Explain @Controller,@RequestMapping ,@Autowired,@Qualifier,@Queryparam,@Pathparam?

8)@Service annotation is there why we go for @Autowired?

9)what is DAO design pattern?

10)what is difference between @Controller and @Restcontroller?

Hibernate

1)What is first level and second level caching?

2)what is Criteria in hibernate with examples?

3)what is difference between save and saveOrUpdate methods in hibernate?

Webservices

1)what is the difference between SOAP and Restful web services?

2)what type of webservice are you using eithe producing webservice or consuming webservice and explanation?

3)what is http method and explanation?

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1. Last project details, roles and responsibilities, technologies used etc.

2. How do you instantiate Struts action class which is only having parameterised constructors ?

3. How do you set constructor arguments in spring bean configuration file.

4. If spring bean class has parameterised constructor with same type of arguments for example : employee(String first\_name, String last\_name), how do set constructor arg in bean config file so that order of arguments remain same?

5. If I have a collection of user defined type which is declared in a third party jar, how can i sort that collection (Comoarable or comparator ??)

6. Draw Webservices architecture which you have used in project and explain. (Few questions related to soap and rest)

7. Since I have mentioned SSL certificates in resume - they asked few questions related to SSL certificates like which type of ssl cert have you used (semantec, mspki etc). Command to import certificates ?

8. Since I have mentioned client-interaction in resume, they asked me few questions related to this.

9. Few process related questions for SIT, UAT and PROD environment.

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Spring:

What modules you have worked?

What is the benefit of using Spring or why we use Spring even there is other options available?

What are IoC and DI?

What is the Aspect Oriented Programming? What is real time implementation?

What is Pointcut and Join Point?

What is difference between Spring AOP and AspectJ AOP? Or what we cannot done with Spring AOP which possible with AspectJ AOP?

What is Annotation? What information annotation carried and how it being process?

What are Infrastructure Architecture and Application Architecture?

Why Spring is not fully J2EE supportive architecture?

Core Java:

What Collections you have worked?

How the HashMap work to store and retrieve elements?

 How Array is different with List and which one you prefer to use?

How you implements ArrayList by your own and what methods you provide?

1. oops concepts

2. Collections

3. String concepts

4. Hibernate methods and those importance(like persistence methods), different types hibernate objects

5. write the code snippet for complete spring MVC flow with all configurations

6. Rest resource design

7.contract between Hashcode and equals methods

8.Spring AOP different types of aspects and their real usages

9.difference between SOAP based webservices and REST based webservices and which one is good

**Spring**

In constructor based injection ,if there are two constructors with string and int arguments respectively. How would it identify which contructor should be called?

What is id-ref? Is there any difference between id-ref & ref?

What is default auto-wired mode?

In auto-wire mode if there happens to exist more then 1 bean of same type, what will happen?

What are limitations of auto –wiring?

When spring bean instances are created?

How to get bean property values from properties files?

What does @Required annotation mean for?

What are JSR-250 annotations?

How to configure to make sure annotation driven programming in spring?

What is context.registerShutdownHook()?

What are the available scopes iff bean implements webcontext interface?

How to register a bean in bean post processor?

**Hibernate**

Hbm2ddl.auto>create does?

How to overcome “Table already exist” exception scenario?

Is it mandatory to have a primary key? How to create a surrogate primary key?

How to save embedded object in same DB table?

What is hibernate proxy?

What are JPA or hibernate annotations?

Which annotation is used to avoid exception if no parent exists for any child record ?

Difference between Bag and List?

How to make sure all child objects a are saved while saving a parent object?

Dirty check vs First level cache?

What is need of criteria & projections?

Use of first level cache?

What is default cache strategy for entity?

|  |
| --- |
| Develop the method to count and return number of occurrences of character ‘e’ from the input character array: public int count(char[] c) |
| Scenario based question: high level system design for a given scenario. |
| What is code quality? |
| What features you would like to add in latest version of Java? |
| In a given scenario, what all design pattern you will use and why? |
| What are the factors you will consider while selecting a particular technology? |
| What all questions I will be asking after reading about the scenario? |
| Usage of String instead of char array is better in method argument. Basically  there is not a right or wrong answer. |
| If you are making any choices in method design you should be able to explain the reason behind choice. |
| Questions related Leadership qualities and mentoring. |
| As a lead, how you will ensure quality project is delivered? |
| Explain your current project and what technologies have you used? |
| What is type-eraser? |
| what is try-with-resource and which version it was introduced? |
| Garbage collection algorithm? |
| What is concurrency F/W? what are the classes have u used.? |
| What is Mockito F/W? |
| What are the scope availabe for Spring Bean? |
| What design pattern have u used? |
| What is singleton Design Pattern and how to implement it in best way? |
| What is JMS? |
| What is Thread pool Executer? |
| How does java Hashmap work internally ? |
| What is an immutable class and How to create an immutable class? |
| What are the advantages of immutability? |
| What are the Difference between ArrayList ? |
| When to use LinkedList or ArrayList? |
| What are the difference between ConcurrentHashMap and Collections.synchronizedMap(Map)? |
| How does ConcurrentHashMap work internally? |
| What is the significance of load factor in HashMap? |
| What Are Generics  and Why do we need Generic Types in Java? |
| Generics is compile time or run time? |
| Tell me one scenario where generics have used in your project? |
| what is the Java Executor framework and how to use it in multithreaded application. |
| What are the significance of hashCode() and equals() method in java? |
| What is the purpose of Serialization in Java? why it is used? |
| What are the use of wait() and notify() methods in java? |
| What are Locks and Synchronization in java and what are the purpose of it? |
| What is Singleton design pattern and how to make a class as singleton? |
| What is the Spring MVC and how does it work internally? or what is the Spring MVC work flow ? |
| What is the bean life cycle .explain it? |
| What are Different types of spring bean scopes and what is the default scope? |
| What is the use of @Qualifier annotation in spring? |
| How to  configure scope for a bean in spring using annotation and xml ? |
| What is container in spring framework and what are Different Types of Spring Containers? |
| What are the benefits of Hibernate Framework? |
| What is Lazy and Eager initialization in hibernate? |
| What is caching and How to configure second level cache in Hibernate? |
| What is Junit and what are the annotation used in Junit? |
| What is mokito and how to use it? |
| What is Test Driven Development(TDD)? |
| What is Agile and SCRUM methodology in project management? |

Scenarios

**Scenario 1:**

Interface Inter

{

Method1();

}

Abstract class AbDemo

{

Void Method1()

{

System.out.println(“this is abstract method”);

}

}

Class Main implements Inter extends AbDemo

{

Method1()

{

System.out.println(“interface method implementation”);

}

Psvm()

{

Main m=new Main();

m.Method1();

}

}

What is the output for above code excute or not if excutes what will ouput?

**Scenario 2:**

Write a code on insert employee data to data base by using hibernate and spring technology?

**Scenario 3:**

how to get the each service by using @Path annotation with example code?

**Scenario 4:**

Class Parent

{

Void m1()

{

Sysout(“parent class”);

}

}

Class Child extends Parent

{

Void m1()throws Exception

{

Sysout(“child class”);

}

Psvm()

{

Child c=new Child();

c.m1();

}

}

What is the output for above code?

**Scenario 5:**

Class Parent

{

Void m1()throws IOException

{

Sysout(“parent class”);

}

}

Class Child extends Parent

{

Void m1()throws Exception

{

Sysout(“child class”);

}

Psvm()

{

Child c=new Child();

c.m1();

}

}

What is the output for above code?

**Scenario 6:**

Write a spring configuration file for connecting the database (ie database configuration)?

**Scenario 7:**

Class Parent

{

Void m1()

{

System.out.println(“first method”);

}

Void m1()

{

System.out.println(“second method”);

}

}

Class Child extends Parent

{

Psvm()

{

Parent p=new Parent();

p.m1();

}

}

Is above code working or not?if working what is the output? If not what is the reason?