Important Interview Questions

Core Java Interview Questions

Basics Of Java

- What is JVM architecture? It's already explained in detail.

- How many types of class loaders are in Java?

- What are the differences between C++ and Java?

- List the features of Java Programming language.

- What if I write static public void main instead of public static void main?

- What are the various access specifiers in Java?

- What is the difference between an object-oriented programming language and object-based programming lan

- What is the main use of the scanner class?

- What are the differences between public and protected?

- Can we override static methods in Java?

- What is meant by the final keyword and what's happened when we declare final as in class, method, and varia

- What are the uses of the final keyword?

- What is the difference between == and equals() in Java?

- What is the difference between a constructor and a method?

- How do you handle a null pointer exception?

- What are some of the Java Naming conventions ?

OOPS Concepts

- Explain Abstraction,How can we achieve abstraction in java?

- What is difference beween abstract class and interface

- Explain the concept of encapsulation

- Explain the concept of method overloading?

- Explain the concept of Inheritance,how many types of inheritance support in java

- What is mean by inheritance,why multiple inheritance not supported in java?

- What is the difference between compile-time polymorphism and runtime polymorphism?

- Explain the concept of polymorphism,types of polymorphism?

- What is difference between method overloading and method overriding?

- Explain the concept of class and object.

- Explain the concept of constructor overloading in java.

- Is Construcrtor Overriding is possible in java?

- Name any seven of the most widely used OOP languages.

- What is meant by Interface?

- What are the drawbacks of using OOPs?

- What is the difference between multiple and multilevel inheritance?

- Is Java Platform Independent if then how?

- What are the datatypes used in Java?

- Can we create an Object for the Abstract class?

- Why a compiler-given constructor is called a default constructor?

- Do constructors have any return type?

- Why a return type is not allowed for the constructor?

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- What is the need for OOPs?

- Explain the concept of GarbgeCollectors,whyits used in java?

- Explain the singleton class in java,whyits important

- Explain the advantages and disadvantages of singleton class

- Is Copy constructor supported in java,if no then why?

- Explain the constructor,types of constructor?

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String

- Difference between String, StringBuffer, and StringBuilder in java

- Explain String pool in Java?

- What are the different ways to create string objects?

- What are the methods available in a string?

- What are the different ways to create string objects?

- Why is string made immutable in JAVA?

- How to compare two strings in java?

- How can you split the string in java?

- How does String immutability benefit Java?

- Why is Java provided with String constant pool as we can store the objects in heap memory?

- Why String is immutable?

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Array

- What are the advantages and disadvantages of an array?

- How to convert Array to List and List to Array?

- What is the difference between a string and an array of characters?

- On which memory arrays are created in Java?

- Can we change the memory size of an array after initialization?

Packages

- Explain the concept of packages

- Explain the type of packages

Explain the difference between userdefine package and predefine package

Exception Handling

- Explain the concept of exception handling,block of try,catch block

- How are the keywords final, finally and finalize different from each other?

- Can you catch and handle Multiple Exceptions in Java?

- What are runtime exceptions in Java?

- Differentiate between Checked Exception and Unchecked Exceptions in Java.

- How to write user-defined exceptions or custom exceptions in Java?

- Explain Java Exception Hierarchy.

- Explain difference between throws and throw keyword

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Nested class,wrapper class

- What is mean by nested,how can we execute it?

- Explain the concept of nested class

- Explain difference between autoboxing or unboxing in java

- Explain the Autoboxing or boxing in java.

- Explain the concept of Enumeration in java

- Explain the concept of wrapper class,whyits needed in java

Mutltithreading And Synchronization

- Explain Multithreading in java,how can we achieve multithreading in java?

- Explain the concept of life cycle of thread

- Explain the concept synchronization in multithreading in java

- Explain Interthread communication in java.

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CollectionFramework

- Explain the collection hierachy in detail

- What is difference between Arraylist and linkedlist

- What is the difference between List and Set interface

- Explain the difference between HashSet and Hashmap

- Explain Hashtable,diff between hashmap and hashtable in collection interface

- What is the difference between Iterator and ListIterator?

- Explain various interfaces used in Collection framework?

- What is the difference between Set and Map?

- How to synchronize List, Set and Map elements?

- What is the difference between HashMap and Hashtable?

  Explain the map interface in detail

Serialization

- Explain the Serialization in file handling

- What is stream? Explain two different streams?

- what is mean by charencoding in java?

- Explain the DataInputstream and dataoutputstream in file handling.

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Advanced Java Questions:-

JDBC

- What is the Difference Between Core Java and Advanced Java?
- What Types of Applications are Developed using Java EE (J2EE)?
- What is JDBC?
- How to create statement interface in JDBC?
- What are the different types of statements in JDBC?
- How to create prepared statement interface in JDBC?
- What is the role of Class.forName while loading drivers?
- What is the role of Class.forName while loading drivers?
- What is the difference between execute(), executeQuery() and executeUpdate()?

Give steps to connect to the DB using JDBC?

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Servlet & JSP

- What is servlet?

- What is the life cycle of servlet?

- How can we forward the request from JSP page to the servlet?

- What is the difference between sendredirect and requestdispatcher?

- When destroy() method of servlet gets called?

- Can you create a Deadlock condition on a servlet?

- What is the difference between ServletConfigandServlet Context?

- How to delete cookie using Serlvet?

- What is URL Rewriting?

- What is MVC?

- How to disable session in JSP?

- What are JSP directives?

- What is the difference between include directive and include action?

- What is the use of <servlet-mapping tag?

- What are the JSP implicit objects?

- How can we handle the exceptions in JSP?

- What are the two ways to include the result of another page?

- How is JSP used in the MVC model?

- What are the different scope values for the <jsp:useBean tag?

- What do JSP literals consist of?

- What is the difference in using request.getRequestDispatcher() and context.getRequestDispatcher()?

- What is JSTL?

- How many tags are provided in JSTL?

- Which directive is used in JSP custom tag?

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Hibernate

- What is a Session in Hibernate?

- What is the difference between get() and load() methods in Hibernate?

- Explain the Hibernate SessionFactory.

- What is a Transaction in Hibernate?

- What is an entity in Hibernate?

- What is a Hibernate configuration file?

- How do you configure Hibernate using annotations?

- What is a primary key in Hibernate and how do you map it?

- What is ORM?

- Explain hibernate architecture?

- What are the core interfaces of Hibernate?

- Mention some of the advantages of using ORM over JDBC.

- List the key components of Hibernate.

- Mention two components of Hibernate configuration object

- How is SQL query created in Hibernate?

- What is the difference between session.save() and session.persist() method?

- What are the states of the object in hibernate?

- What are the inheritance mapping strategies?

- How many types of association mapping are possible in hibernate?

- What is HQL (Hibernate Query Language)?

- What is the difference between first level cache and second level cache?

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Spring ,SpringMVC,SpringJDBC

- What is the difference between constructor injection and setter injection?

- What is Spring?

- What are the advantages of spring framework?

- What is the purpose of the @Component annotation?

- Explain the use of the @Autowired annotation.

- How do you use the @Qualifier annotation?

- What is the role of the @Value annotation?

- What are the modules of spring framework?

- What is the role of IOC container in spring?

- What is the difference between BeanFactory and ApplicationContext?

- What are the transaction management supports provided by spring?

- What are classes for spring JDBC API?

- How can you fetch records by spring JdbcTemplate?

- What is the front controller class of Spring MVC?

- Explain the architecture of Spring MVC.

- What is the DispatcherServlet?

- How do you configure a Spring MVC application?

- What are the different annotations used in Spring MVC?

- How do you handle form submission in Spring MVC?

- What is the role of the @Controller annotation?

- What is the role of the @RequestMapping annotation?

- How do you configure a DataSource in Spring?

- What is Spring Security?

- How do you configure Spring Security in a Spring application?

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- What are the main components of Spring Security?

- What does @RequestMapping annotation?

- What does the ViewResolver class?

- Does spring MVC provide validation support?

What does @RequestMapping annotation?

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SpringBoot

- What is Spring boot?

- What are the advantages of using Spring Boot?

- What are the Spring Boot key components?

- Why Spring Boot over Spring?

- What is the starter dependency of the Spring boot module?

- How does Spring Boot works?

- What does the @SpringBootApplication annotation do internally?

- What is the purpose of using @ComponentScan in the class files?

- How does a spring boot application get started?

- What are the most common Spring Boot CLI commands?

- What is Spring Boot CLI and what are its benefits?

- What is Spring Initializer?

- What are starter dependencies?

- What is the difference between @RestController and @Controller in Spring Boot?

  What is an IOC container?

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·ontEnd Interview Questions:-

HTML Questions

- What is HTML?

- Difference between HTML and XHTML

- Differentiate between inline and block elements

- What are HTML attributes?

- What are HTML tags?

- What are lists in HTML?

- What is doctype in HTML?

- What is semantic HTML?

- Define An Anchor Tag

- What are HTML entities?

- What are void elements in HTML?

- What is a marquee?

- What is cell padding?

- What is SVG?

- Where Can You Use Hyperlinks

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CSS Questions Questions

- Explain The Css3 Box Model

- What are CSS selectors?

- What are the advantages of CSS?

- What is CSS?

- Define Css Frameworks

- What are the limitations of CSS?

- Explain Css Position Property

- What is the syntax for CSS?

- Explain the float property.

- Differentiate Style Sheet Concept From html.

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Javascript Questions

- Different data types in JavaScript

- Define Undeclared And Undefined Variables

- What is JavaScript?

- Differentiate between JavaScript and Java

- What is strict mode in JS?

- What are events in JavaScript?

- Describe arrow functions

- Define Variable Typing In Javascript

- Difference BetweenVar, Let, And Constant variable.

- Explain Events in JS,difference in between event listener and handlers

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Database Interview Questions

MySQLQuestions

- How to delete columns in MySQL?

- What is MySQL?

- How Does Mysql Add Columns

- How to add users in MySQL?

- How to create TABLE using MySQL?

- Difference Between Char And Varchar

- How to import a MySQL database?

- What is a database?

- Describe The Technical Features Of Mysql

- How to check MySQL version?

- What are views in MySQL?

- Explain the concept of indexing,types of index

- Explain Joins and types of joins

- What is mean by clauses,how many clauses are exist in mysql

- Explan The SqlCommands in details

- What is the difference between MySQL and SQL?

- How to check the MySQL version?

- How to add foreign keys in MySQL?

- How to import a database in MySQL?

- How to create a View in MySQL?

- How to join three tables in MySQL?

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SQL Query

- Write a query to retrieve all columns from a table called Employees.

- Retrieve only the first_name, last_name, and salary from the Employees table.

- Write a query to find distinct job titles from the Jobs table.

- Write a query to get all employees with a salary greater than 5000.

- Write a query to fetch employees who work in the 'Sales' department.

- Write a query to retrieve all employees from the employee table and order them by salary in descending order.

- Write a query to get the top 5 highest-paid employees.

- Write a query to count the total number of employee from the Employees table.

- Find the average salary of employees in the Employees table.

- Insert a new employee into the Employees table with the following details: first name 'John', last name 'Doe', department salary 4000.

- Insert bonus into the employee table with the dept as the "IT" and total amount as 1500.

- Write a query to update the last_name of the employee with employee_id = 5 to 'Smith'.

- Change the department of all employees whose salary is greater than 5000 to 'Management'.

- Update the salary of all employees in the 'Sales' department by increasing it by 10%.

- Change the salary of a employee in the employees table with the employee_id of 1 to 5.

- Write a query to find the maximum and minimum salary from the employee table.

- Write a query to count the number of employees in each department.

- Retrieve the total employee for each dept using the GROUP BY clause.

- Write a query to find all employees and their corresponding department names using a join between Employees and Dep

- Write a query to find employees who earn more than the average salary in the Employees table.