

Questions

Why is Java a platform independent language?

What do you understand by an instance variable and a local variable?

What do you mean by data encapsulation?

Tell us something about JIT compiler.

Can you tell the difference between equals() method and equality operator (==) in Java?

How is an infinite loop declared in Java?

Briefly explain the concept of constructor overloading

Difference between method overloading and overriding

Do final, finally and finalize keywords have the same function?

Explain the use of final keyword in variable, method and class.

Can the static methods be overloaded?

Can the static methods be overridden?

What is the main objective of garbage collection?

Apart from the security aspect, what are the reasons behind making strings immutable in Java?

What is String Pool?

How would you differentiate between a String, StringBuffer, and a StringBuilder?

differences between interfaces and abstract classes.

What makes a HashSet different from a TreeSet?

Why is the character array preferred over string for storing confidential information?

What are the differences between HashMap and Hashtable in Java?

What are the different ways of threads usage?

What are the differences between constructor and method of a class in Java?

Java works as “pass by value” or “pass by reference” phenomenon?

How to not allow serialization of attributes of a class in Java?

What happens if the static modifier is not included in the main method signature in Java?

What happens if there are multiple main methods inside one class in Java?

How does an exception propagate in the code?

Is it mandatory for a catch block to be followed after a try block?

Will the finally block get executed when the return statement is written at the end of try block and catch block as shown below?

Can you call a constructor of a class inside the another constructor?

Contiguous memory locations are usually used for storing actual values in an array but not in ArrayList. Explain.

Although inheritance is a popular OOPs concept, it is less advantageous than composition. Explain.

How is the creation of a String using new() different from that of a literal?

Is exceeding the memory limit possible in a program despite having a garbage collector?

Why is synchronization necessary? Explain with the help of a relevant example

Can you explain the Java thread lifecycle?

Is it possible to import the same class or package twice in Java and what happens to it during runtime?

Will the finally block be executed if the code System.exit(0) is written at the end of try block?

What do you understand by marker interfaces in Java?

Explain the term “Double Brace Initialisation” in Java?

Why is it said that the length() method of String class doesn't return accurate results?

What are the possible ways of making object eligible for garbage collection (GC) in Java?

What are the main differences between array and collection?

Explain various interfaces used in Collection framework?

What is the difference between ArrayList and Vector?

What is the difference between ArrayList and LinkedList?

What is the difference between Iterator and ListIterator?

What is the difference between List and Set?

What is the difference between HashSet and TreeSet?

What is the difference between Set and Map?

What is the difference between HashMap and TreeMap?

What is the difference between HashMap and Hashtable?

What is the difference between Comparable and Comparator?
What does the hashCode() method?
Why we override equals() method?
What is hash-collision in Hashtable and how it is handled in Java?
What do you understand by fail-fast?
What is the difference between Array and ArrayList?
What is the difference between the length of an Array and size of ArrayList?
How to convert ArrayList to Array and Array to ArrayList?
How to remove duplicates from ArrayList?
How to reverse ArrayList?
How to sort ArrayList in descending order?

Questions

What is spring boot?

Minimum Java version needed for Spring Boot?

What are the advantages of using Spring Boot?

Why Spring Boot over Spring?

What is the starter dependency of the Spring boot module?

What does the @SpringBootApplication annotation do internally?

What is Spring Boot Actuator?

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

How does a spring boot application get started?

What are starter dependencies?

What is the default port of tomcat in spring boot?

Is it possible to change the port of the embedded Tomcat server in Spring Boot?

What is Spring Initializer?

What is Spring Boot CLI and what are its benefits?

How to connect Spring Boot to the database using JPA

What are the most common Spring Boot CLI commands?

What Are the Basic Annotations that Spring Boot Offers?

What is Spring Boot dependency management?

Can we override or replace the Embedded tomcat server in Spring Boot?

Can we disable the default web server in the Spring boot application?

How to disable a specific auto-configuration class?

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

Describe the flow of HTTPS requests through the Spring Boot application?

What is the difference between RequestMapping and GetMapping?

What is the use of Profiles in spring boot?

What is Spring Actuator? What are its advantages?

How to enable Actuator in Spring boot application?

What are the actuator-provided endpoints used for monitoring the Spring boot application?

How to get the list of all the beans in your Spring boot application?

How to enable debugging log in the spring boot application?

How to check the environment properties in your Spring boot application?

Where do we define properties in the Spring Boot application?

What is dependency Injection? Explain with types of Injection

What is an IOC container?

Exception handling in spring boot application

Explain Centralized Logging Mechanism

Questions

What is IOC and DI?

What is the role of IOC container in spring? Explain its types

What is the difference between BeanFactory and ApplicationContext?

What is the difference between constructor injection and setter injection?

What is autowiring in spring? What are the autowiring modes?

What are the different bean scopes in spring?

In which scenario, you will use singleton and prototype scope?

What are the transaction management supports provided by spring?

What are the advantages of JdbcTemplate in spring?

What are classes for spring JDBC API?

How can you fetch records by spring JdbcTemplate?

What is AOP?

What are the advantages of spring AOP?

What are the AOP terminology?

What is JoinPoint?

What is Advice? What are the types of advice in AOP?

What is Pointcut?

What is Aspect?

What is target object?

What is interceptor?

What is the front controller class of Spring MVC?

What does the ViewResolver class?

Questions

What is ORM in Hibernate?

What are the advantages of Hibernate over JDBC?

What is HQL (Hibernate Query Language)?

What are some of the important interfaces of Hibernate framework?

What is a Session in Hibernate?

What is a SessionFactory?

What do you think about the statement - "session being a thread-safe object"?

Can you explain what is lazy loading in hibernate?

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

How do you create an immutable class in hibernate?

Can you explain the concept behind Hibernate Inheritance Mapping?

Is hibernate prone to SQL injection attack?

Explain hibernate mapping file

What are the most commonly used annotations available to support hibernate mapping?

Explain Hibernate architecture

Can you tell the difference between getCurrentSession and openSession methods?

Differentiate between save() and saveOrUpdate() methods in hibernate session.

Differentiate between get() and load() in Hibernate session

What is criteria API in hibernate?

Can you tell something about one to many associations and how can we use them in Hibernate?

What are Many to Many associations?

What does session.lock() method in hibernate do?

What is hibernate caching?

When is merge() method of the hibernate session useful?

Collection mapping can be done using One-to-One and Many-to-One Associations. What do you think?

Can you tell the difference between setMaxResults() and setFetchSize() of Query?

Does Hibernate support Native SQL Queries?

What happens when the no-args constructor is absent in the Entity bean?

Can we declare the Entity class final?

What are the states of a persistent entity?

Explain Query Cache

Can you tell something about the N+1 SELECT problem in Hibernate?

How to solve N+1 SELECT problem in Hibernate?

What are the concurrency strategies available in hibernate?

What is Single Table Strategy?

Can you tell something about Table Per Class Strategy.

Can you tell something about Named SQL Query

What are the benefits of NamedQuery?

Questions
What is the Java Persistence API?
What is the object-relational mapping?
What are the advantages of JPA?
List some ORM frameworks
What are the steps to persist an entity object?
What are the steps to insert an entity?
What are the steps to update an entity?
What are the steps to delete an entity?
What are the different types of entity mapping?
Explain persistence life cycle of an object?
What are the different types of identifier generation?
What are the properties of an entity?
What are the constraints on an entity class?
What type of collections can be used in JPA?
What is the purpose of cascading operations in JPA?
What are the types of cascade supported by JPA?
What is the Criteria API?

Questions

How many types of heading does an HTML contain?

How to create a hyperlink in HTML?

What are some common lists that are used when designing a page?

What is semantic HTML?

How to insert a copyright symbol on a browser page?

How to create a nested webpage in HTML?

Does a hyperlink only apply to text?

Explain the layout of HTML?

What is a marquee?

What is the use of a span tag? Give one example.

What is the canvas element in HTML5?

What is SVG?

What are the different new form element types in HTML 5?

Which type of video formats are supported by HTML5?

What is the difference between progress and meter tag?

What is the use of figcaption tag in HTML 5?

What is the use of details and summary tag?

How are tags migrated from HTML4 to HTML5?

What is the use of the required attribute in HTML5?

What are the new <input> types for form validation in HTML5?

Questions
What are the subsets of SQL?
What is the purpose of DDL Language?
What is the purpose of DML Language?
What is the purpose of DCL Language?
What is the difference between a primary key and a unique key?
What is meant by DBMS?
What are the different types of database management systems?
What is Normalization in a Database?
What are the disadvantages of not performing database Normalization?
What are the different types of SQL operators?
What is a view in SQL?
What are the different types of indexes in SQL?
What is the unique index?
What is clustered index in SQL?
What is the non-clustered index in SQL?
What is the SQL query to display the current date?
Which are joins in SQL? Name the most commonly used SQL joins?
What is INNER JOIN in SQL?
What is the Right /Left JOIN in SQL?
What is a "TRIGGER" in SQL?
What is self-join and what is the requirement of self-join?
What are the set operators in SQL?
What is the difference between IN and BETWEEN operators?
Write the SQL query to get the third maximum salary of an employee from a table named employees.
What is the difference between DELETE and TRUNCATE statements in SQL?
What is the ACID property in a database?
Is a blank space or zero the same as a NULL value?
What are functions and their usage in SQL?
Explain character-manipulation functions? Explains its different types in SQL.
What is the usage of the NVL() function?
Which function is used to return remainder in a division operator in SQL?
How do we use the DISTINCT statement? What is its use?
What is the difference between the WHERE and HAVING clauses?
How many Aggregate functions are available in SQL?
What is the difference between the RANK() and DENSE_RANK() functions?
What is the basic structure of PL/SQL?
What is the difference between FUNCTION, PROCEDURE AND PACKAGE in PL/SQL?
Does PL/SQL support CREATE command?
How exception is different from error?
What are PL/SQL exceptions? Tell me any three
How do you declare a user-defined exception?
What are some predefined exceptions in PL/SQL?
How many types of triggers exist in PL/SQL?
What is the difference between execution of triggers and stored procedures?
How to disable a trigger name update_salary?
Which command is used to delete a trigger?
What are the two virtual tables available at the time of database trigger execution?
What are the different schemas objects that can be created using PL/SQL?
What is the difference between the implicit and explicit cursors?
What will you get by the cursor attribute SQL%ROWCOUNT?
What will you get by the cursor attribute SQL%FOUND?
What are the two different parts of the PL/SQL packages?
Which command is used to delete a package?
How to execute a stored procedure?
What are the cursor attributes used in PL/SQL?
What is cursor and why it is required?

Questions

What are Microservices? / What do you understand by Microservices?

What are the three commonly used tools for Microservices?

What are the main components of Microservices?

What are the main advantages of using Microservices?

What are the main differences between Microservices and Monolithic Architecture?

What are the biggest challenges in Microservice deployment?

What are the different strategies used in Microservices deployment?

What are the three types of tests used in Microservices?

What do you understand by Domain-Driven Design?

What is the use of PACT in Microservices architecture?

What do you understand by OAuth?

What do you understand by end-to-end Microservices testing?

What is the difference between Coupling and Cohesion?

What is Spring Cloud? What problems can be solved by using Spring Cloud?

What do you understand by the Distributed Transaction?

What is the full form of CDC? What is its usage?

How can you configure Spring Boot application login?

How independent micro-services communicate with each other?

How can you implement a Spring Security in a Spring Boot Application?

What is the difference between Rest and Microservices?

What do you understand by Idempotence? Where is it used?

What do you understand by Two Factor Authentication? What are the different types of credentials used in Two Factor Authentication?

Why do many developers hesitate in using Microservices? / What are the biggest cons of using Microservices?

What is the usage of WebMvcTest annotation in Spring MVC applications?

What is Eureka in Microservices?

How can you balance the server-side load by utilizing Spring Cloud?

What do you understand by Cross-functional testing?

What is the use of Netflix Hystrix?

Questions
What is Bootstrap Grid System?
What does Bootstrap package includes?
What are Bootstrap media queries?
What are Offset columns?
How can you order columns in Bootstrap?
Explain the typography and links in Bootstrap.
How do you make images responsive?
Explain types of lists supported by Bootstrap.
How do you use Glyphicons?
What is a Modal Plugin?
What is a transition plugin?
How do you use the Dropdown plugin?
What is Bootstrap carousel?
What is button group
Which class is used to draw a toolbar of buttons
Which class make a set of buttons appear vertically stacked rather than horizontally
How will you create a tabbed navigation menu
How will you create a pills navigation menu
What is bootstrap breadcrumb
How will you customize links of pagination
What are bootstrap badges
Which class is used for basic pagination
What is Bootstrap Jumbotron
How to customize thumbnails using Bootstrap
How will you create a bootstrap alert?
How will you create a progress bar using bootstrap?
How will you create a animated progress bar using bootstrap?
How will you create a striped progress bar using bootstrap
What is the purpose of .media class in bootstrap?
How will you create a bootstrap panel with footer
How will you create a bootstrap panel with heading
What is Scrollspy plugin
What is bootstrap well

Questions
What is React?
What are the features of React?
Explain the lifecycle methods of React components in detail.
What are the different phases of React component's lifecycle?
What is create-react-app?
What are the biggest limitations of React?
What do you understand by the state in React?
What is JSX?
Why can't browsers read JSX?
Why we use JSX?
What do you understand by Virtual DOM?
Explain the working of Virtual DOM.
How is React different from Angular?
How React's ES6 syntax is different from ES5 syntax?
What is the difference between ReactJS and React Native?
What do you understand from "In React, everything is a component."
Explain the purpose of render() in React.
How can you embed two or more components into one?
What is a State in React?
Differentiate between States and Props.
How can you update the State of a component?
Differentiate between stateless and stateful components.
What is arrow function in React? How is it used?
What is an event in React?
How do you create an event in React?
What are synthetic events in React?
what is the difference between controlled and uncontrolled components?
Explain the Lists in React.
How are forms created in React?
What do you understand by props in React?
What are Pure Components?
What are Higher Order Components(HOC)?
What can you do with HOC?
What is the difference between Element and Component?
How to write comments in React?
Why is it necessary to start component names with a capital letter?
What are fragments?
Why are fragments better than container divs?
How to apply validation on props in React?
When do we prefer to use a class component over a function component?
Is it possible for a web browser to read JSX directly?
What are the main changes that appear in React's ES6 syntax compared to ES5 syntax?/How different is React's ES6 syntax compared to ES5?
What do you understand by refs in React? How to create refs?
What are Forward Refs?
Which is the preferred option callback refs or findDOMNode()?
What is React Router?
How is React Router different from Conventional Routing?
Why you get "Router may have only one child element" warning?
Why switch keyword used in React Router v4?
What are hooks in React?
What are the rules you should follow for the hooks in React?
What is an error boundary or error boundaries?
In which cases do error boundaries not catch errors?
Explain the Flux concept.
What is Redux?
What are the three principles that Redux follows?
List down the components of Redux.

Explain the role of Reducer.
What is the significance of Store in Redux?
How is Redux different from Flux?
How to access the Redux store outside a component?

Questions			
List some features of JavaScript.			
List some of the disadvantages of JavaScript.			
Define a named function in JavaScript.			
Name the types of functions			
Define anonymous function			
Can an anonymous function be assigned to a variable?			
In JavaScript what is an argument object?			
If we want to return the character from a specific index which method is used?			
Is JavaScript case sensitive language?			
What is BOM?			
What is DOM? What is the use of document object?			
What is the use of window object?			
What is the use of history object?			
What are the different data types present in JavaScript?			
What is the difference between == and ===?			
How to write HTML code dynamically using JavaScript?			
How to write normal text code using JavaScript dynamically?			
How to create objects in JavaScript?			
How to create an array in JavaScript?			
What does the isNaN() function?			
What is the output of "10+20+30" in JavaScript?			
What is the output of "10"+"20"+30 in JavaScript?			
Difference between Client side JavaScript and Server side JavaScript?			
In which location cookies are stored on the hard disk?			
What's the difference between event.preventDefault() and event.stopPropagation() methods in JavaScript?			
What is the difference between undefined value and null value?			
What is the difference between View state and Session state?			
What are the pop-up boxes available in JavaScript?			
How to submit a form using JavaScript by clicking a link?			
How to change the background color of HTML document using JavaScript?			
How to validate a form in JavaScript?			
How to handle exceptions in JavaScript?			
How to validate email in JavaScript?			
What is this keyword in JavaScript?			
What is the role of a strict mode in JavaScript?			
What is the use of Math object in JavaScript?			
What is the use of a Number object in JavaScript?			
What is the use of a Boolean object in JavaScript?			
What is the use of a TypedArray object in JavaScript?			
What is the use of a Set object in JavaScript?			
What is the use of a Map object in JavaScript?			
Fill Blanks	Explain Difference between Rest and Spread operator in JS	Simple	Rest is used to pass arguments but spread is used to concatenate elements
Fill Blanks	Explain Difference between let, const and var in JS	Simple	Var is support hoisting but const and let will not support hoisting
Fill Blanks	What are the ways we can create objects in JS	Simple	create objects using new operator and object.create
Fill Blanks	Explain CSS Box model	Simple	Padding, Border and Margin
Fill Blanks	Explain higher order functions	Simple	functions are passed as parameters to other functions or functions returns other functions is called as higher order functions
Fill Blanks	Difference between for each and map functions	Simple	for each not returns new functions but map will returns new functions
Fill Blanks	Difference between normal function and arrow functions	Simple	arrow functions are not support this keyword but normal functions will support this keyword
Fill Blanks	arrow functions are not support keyword but normal functions will support keyword in java script	Simple	undefined, Number, String, Object
Fill Blanks	Explain the features of HTML5	Simple	header, footer, Navigation, audio, video, tags are introduced
Fill Blanks	Explain difference between call(), apply() and bind() methods.	Simple	call()- pass number of arguments, apply()- pass array as an arguments, Bind()- returns new function
Fill Blanks	Explain the difference between not defined and undefined value in JavaScript	Simple	variable are declared but not assigned any value it will give undefined. but Variables are not declared is called as not defined
Fill Blanks	What is NaN property in JavaScript	Simple	it check whether given variable is number or not

Questions

How to use styles in React?

How many ways can we style the React Component?

Explain CSS Module styling in React.

What are Styled Components?

What are the CSS frameworks

What is Embedded Style Sheet?

What is a CSS selector?

Name some CSS style components.

What is the use of CSS Opacity?

Explain universal selector.

What is the use of % unit?

Name the property for controlling the image repetition of the background.

Name the property for controlling the image position in the background

Name the property for controlling the image scroll in the background

What is the use of ruleset?

What is the difference between class selectors and id selectors?

What is the difference between inline, embedded and external style sheets?

What is the difference between logical tags and physical tags?

What is the CSS Box model and what are its elements?

What is the float property of CSS?

Explain the difference between visibility: hidden and display: none?

What is tweening?

What is the difference between CSS2 and CSS3?