What is Thread? in 1 mark question in java

ChatGPT

In Java, a thread is a lightweight, independent path of execution within a program, allowing for concurrent and parallel processing.



2 Name the classes of List and Set Interface. in 1 mark question in java

ChatGPT

In Java, the classes that implement the List interface include ArrayList, LinkedList, and Vector.

For the Set interface, notable classes are HashSet, TreeSet, and LinkedHashSet.



3 Define String Buffer. 1 mark question in java

ChatGPT

A StringBuffer in Java is a mutable, thread-safe, and expandable sequence of characters used for manipulating and modifying strings efficiently.



What are Wrapper Classes? 1mark question in java

ChatGPT

Wrapper classes in Java are classes that provide objects to encapsulate primitive data types, such as int, float, char, etc., allowing them to be treated as objects.



5 Give the main classes of Byte Stream. 1mark question in java

ChatGPT

The main classes of Byte Stream in Java include **InputStream** and **OutputStream**.



Define Applet. 1mark question in java

ChatGPT

An applet in Java is a small Java program that is embedded within an HTML web page and is executed by a web browser.



What is awt? 1mark question in java

ChatGPT

AWT stands for "Abstract Window Toolkit" in Java, and it is a set of classes and libraries used to create graphical user interfaces (GUI) for Java applications.



What is Synchronization? 1mark question in java

ChatGPT

Synchronization in Java is a process that ensures multiple threads can access shared resources or code in an orderly and coordinated manner to prevent data corruption or race conditions.



Name the classes of List and Map Interface. 1mark question in java

ChatGPT

For the List interface in Java, the main classes include ArrayList, LinkedList, and Vector.

For the Map interface, notable classes are HashMap, TreeMap, and LinkedHashMap.



Define Cloning. 1mark question in java

ChatGPT

Cloning in Java refers to the process of creating a duplicate or copy of an object, typically using the **clone()** method, to produce an independent instance with the same state as the original object.



Give the main classes of Character Stream. 1mark question in java

ChatGPT

The main classes of Character Stream in Java include **Reader** and **Writer**.



What is GUI Programming? 1mark question in java

ChatGPT

GUI programming, or Graphical User Interface programming, in Java involves creating visual interfaces for software applications with buttons, windows, menus, and other graphical elements to enable user interaction.



1 How can we achieve synchronization? 1mark question in java

ChatGPT

Synchronization in Java can be achieved through mechanisms like using the **synchronized** keyword, locks, and concurrent classes to coordinate access to shared resources or code among multiple threads.



Name the classes of Queue and Map Interface. 1mark question in java

ChatGPT

For the Queue interface in Java, the main classes include LinkedList, PriorityQueue, and ArrayDeque.

For the Map interface, notable classes are HashMap, TreeMap, and LinkedHashMap.



Define AutoBoxing 1mark question in java

ChatGPT

AutoBoxing in Java is the automatic conversion of a primitive data type into its corresponding wrapper class object (e.g., int to Integer) when necessary, simplifying code by allowing primitive types to be used like objects in certain contexts.



4 What is Eclipse? 1mark question in java

ChatGPT

Eclipse is an integrated development environment (IDE) used for Java and other programming languages.



5 Give the main classes of Stream. 1mark question in java

ChatGPT

The main classes for Streams in Java are **InputStream** and **OutputStream** for byte-oriented streams, and **Reader** and **Writer** for character-oriented streams.



What is Event Handling?1mark question in java

ChatGPT

Event handling in Java refers to the process of managing and responding to events, such as user interactions (e.g., mouse clicks, keyboard input) or system-generated events, in a graphical user interface (GUI) or other software applications.



What is multi threading? 1mark question in java

ChatGPT

Multithreading in Java is the capability of a CPU or a single core in a multi-core processor to provide multiple threads of execution concurrently, allowing for better utilization of resources and parallel execution of tasks. In Java, multithreading specifically refers to the concurrent execution of multiple threads within a single Java process.



Name the classes of List and Queue Interface. 1mark question in java

ChatGPT

For the List interface in Java, the main classes include ArrayList, LinkedList, and Vector.

For the Queue interface, notable classes are LinkedList, PriorityQueue, and ArrayDeque.



Give the main classes of Input Stream 1mark question in java

ChatGPT

The main classes for InputStream in Java include FileInputStream and ByteArrayInputStream.



What is Event? 1mark question in java

ChatGPT

In Java, an event is a specific occurrence or action, such as a user clicking a button, typing on the keyboard, or a timer firing. Events trigger event handlers or listeners that respond to and process these actions in a program, typically used in graphical user interfaces (GUIs) and interactive applications.



Define UnBoxing? 1mark question in java

ChatGPT

Unboxing in Java is the process of converting a wrapper class object (e.g., Integer) back to its corresponding primitive data type (e.g., int) automatically when necessary, allowing for seamless transition between objects and primitive types.

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