- What is Java and how does it differ from other programming languages?

- What are the main features of Java?

- What is the difference between JDK, JRE, and JVM?

- What are primitive data types in Java?

- How is memory managed in Java?

- What is garbage collection in Java and how does it work?

- What are the different types of memory areas allocated by JVM?

- What is the difference between static and instance variables in Java?

- What is the purpose of the final keyword in Java?

- How does Java achieve platform independence?

- What is method overloading in Java?

- What is method overriding in Java?

- What is the difference between an interface and an abstract class in Java?

- What is the significance of the super keyword in Java?

- What are the different types of constructors in Java?

- What is a copy constructor in Java?

- How do you implement multiple inheritance in Java?

- What are Java access modifiers and how do they work?

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

- What is the purpose of the instanceof operator in Java?

- What are wrapper classes in Java?

- What is the difference between checked and unchecked exceptions in Java?

- How does exception handling work in Java?

- What is a try-with-resources statement in Java?

- What is the difference between ArrayList and LinkedList in Java?

- What is a HashMap in Java and how does it work?

- What is the difference between HashSet and TreeSet in Java?

- What are streams in Java?

- How do you create a thread in Java?

- What is the difference between Runnable and Thread in Java?

- What are Java lambda expressions?

- What is functional programming in Java?

- What is the use of the synchronized keyword in Java?

- What are the different types of design patterns in Java?

- What is dependency injection in Java?

- What is reflection in Java?

- How do you create an immutable class in Java?

- What is the difference between deep copy and shallow copy in Java?

- What is serialization in Java?

- What is the purpose of the volatile keyword in Java?

- What are the different types of classloaders in Java?

- What is JDBC in Java?

- How does Java handle database connectivity?

- What is Spring Framework in Java?

- What are microservices in Java?

- How does garbage collection impact performance in Java?

- What are default and static methods in interfaces in Java?

- What is the difference between String, StringBuilder, and StringBuffer in Java?

- What are annotations in Java?

- What is the purpose of the transient keyword in Java?