

Introduction to OOP in Java - Questions

1. What are the four main principles of Object-Oriented Programming (OOP)? Explain each briefly.
2. How does Java support encapsulation? Provide an example.
3. What is the difference between a class and an object in Java?
4. Explain the concept of inheritance with an example in Java.
5. What is polymorphism in Java? Differentiate between method overloading and method overriding.
6. What is an abstract class? How is it different from an interface in Java?
7. Explain the concept of constructors in Java. How do they differ from methods?
8. What is the significance of the 'this' keyword in Java? Provide an example.
9. How does Java implement multiple inheritance, and why is it restricted in classes?
10. What is the role of access modifiers (public, private, protected, and default) in Java OOP?