**OOP Interview Questions**

* What is OOP, and what are the core principles of OOP?
* Explain the concepts of encapsulation, inheritance, and polymorphism in OOP.
* What is an object in Java? How is it different from a class?
* What is the difference between abstraction and interface in Java?
* What is the purpose of using access modifiers (public, private, protected, default) in Java?
* How do you achieve multiple inheritance in Java? Can you provide an example?
* What is method overloading and method overriding? How are they different?
* What are abstract classes in Java? When and why should you use them?
* What are interfaces in Java, and how do they differ from abstract classes?
* Can you explain the concept of constructors and their significance in Java?
* What is the difference between an instance variable and a static variable in Java?
* How do you prevent a class from being inherited by other classes in Java?
* How can you achieve runtime polymorphism in Java?
* What is the 'super' keyword in Java, and when do you use it?
* What is the purpose of the 'this' keyword in Java?
* How does Java support encapsulation? Provide an example.
* How do you call a superclass constructor using the super keyword? Provide an example.
* When is the use of super() constructor call mandatory in a subclass constructor?
* Can you use the super keyword to access superclass methods? Explain with an example.
* What happens if you don't explicitly call the super() constructor in a subclass constructor?
* How does the super keyword relate to method overriding in Java?
* How does the this keyword differ from the super keyword?
* Can you use the this keyword inside a static method? Why or why not?