

INHERITANCE

=====

Technical Questions

=====

- 1.What is inheritance and how does it improve code reusability?
- 2.Explain single, multilevel, hierarchical inheritance with real-time examples.
- 3.Why Java does not support multiple inheritance using classes?
- 4.How does Java achieve multiple inheritance using interfaces?
- 5.What is method overriding and its rules?
- 6.Difference between overloading vs overriding?
- 7.What is super keyword and where is it used?
- 8.What happens if parent and child have same method signature?
- 9.What is runtime polymorphism in inheritance?
- 10.Can constructors be inherited? Explain.

Tasks

- 1.Create a Banking system

Parent: Account

Child: Savings, Current

Override interest calculation

- 2.Create Employee hierarchy

Employee → Manager → Director

Add salary bonus calculation

- 3.Create Vehicle system

Vehicle → Car, Bike

Override speed & fuel methods

- 4.Implement Hybrid inheritance using interfaces

Interface: Loan, Insurance

Class: Customer implements both

- 5.Create Multilevel inheritance with constructor chaining

Show execution order

- 6.create above 4 packages and call all your class methods into the India using multilevel inheritance.

package name: org.india

Project name: SouthIndia

Class name : India

Methods : india

package name: org.tamilnadu

Project name: SouthIndia

Class name : TamiladuN

Methods : tamillanguage

package name: org.kerala

Project name: SouthIndia

Class name : kerala

Methods : malayalam

package name: org.andrapradesh

Project name: SouthIndia

Class name : AndhraPradesh

Methods : telugu