

ABSTRACTION

=====

TECHNICAL QUESTIONS:

=====

- 1.What is abstraction in Java?
- 2.Why do we use abstraction?
- 3.What is the difference between abstraction and encapsulation?
- 4.What is an abstract class?
- 5.Can we create an object for an abstract class? Why?
- 6.Difference between abstract class and interface?
- 7.Can abstract class implement interface?
- 8.Can we have variables in interface? What type?
- 9.Can we achieve 100% abstraction? How?
- 10.Multiple inheritance possible using abstraction? Explain.

TASKS:

=====

- 1.Create an abstract class Animal with:
abstract method sound()
method sleep()
Create subclass Dog and implement methods
- 2.Create an interface Vehicle:
method start()
Implement in Car class
- 3.Write a program:
abstract class Shape
abstract method area()
Create Circle and Rectangle
- 4.Create abstract class Employee
fields: name, salary
abstract method calculateSalary()
- 5.Design a payment system:
abstract class Payment
methods: pay()
subclasses: CreditCard, UPI, NetBanking