*OOPS*

**1 why OOPs is important in one line**

OOP is important because it organizes code into reusable, modular, and maintainable objects that model real-world entities.

**2 objects**

In **OOP (Object-Oriented Programming)**, **objects** are instances of classes that bundle **data (attributes/properties)** and **behavior (methods/functions)** together to represent real-world entities.

👉 Example:

* A **Car object** may have:
  + Attributes → color, brand, speed
  + Methods → start(), stop(), accelerate()

**Definition (to speak in interview)**

👉 *“In Java, a****class****is a blueprint or template that defines the structure and behavior, while an****object****is an instance of that class which actually exists in memory and can be used to perform actions.”*

**Explanation**

* **Class** ek **blueprint** hai. Matlab ek design ya template jisme properties aur behaviors define hote hain.
* **Object** us class ka **real-world instance** hai, jo memory me create hota hai aur actual kaam karta hai.

class Car {

String color;

String brand;

void start() {

System.out.println("Car is starting...");

}

}

public class Main {

public static void main(String[] args) {

// Creating object of Car class

Car myCar = new Car();

myCar.color = "Red";

myCar.brand = "Toyota";

// Accessing object properties and methods

System.out.println("Car Brand: " + myCar.brand);

myCar.start();

}

}

**Impactful Points to Say in Interview 🚀**

* “**Class is a logical entity, Object is a physical entity.**”
* “Class defines, Object occupies memory.”
* “Objects allow us to use OOP concepts like encapsulation, abstraction, inheritance, and polymorphism in real-world coding.”
* “For example, if Class is a **Recipe**, then Object is the **Dish** prepared from that recipe.”

interview me ek **short definition** + **real-world example** (jaise Car, Dog, Employee) dena → ye impactful lagta hai.

**3 Classes**

**Definition (One-liner):**  
A **class** in Java is a blueprint or template that defines the properties (attributes) and behaviors (methods) of objects.

**Example:**

**Explanation in One-liner style:**  
*“Class ek design hai jisme properties aur functions define hote hain, aur usse hum objects create kar sakte hain.”*

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**4** ***this*** – keyword

***this*** is a keyword in Java which helps Tell the method Start currently Which object is Trying to access it