

# Java OOPS notes

## Class and Object

Class and Object in Java – Simple Notes

### Class

**A class is a blueprint or template for creating objects.**

**It defines what data (variables) and what actions (methods) an object will have.**

Example:

```
class Car {  
    String color;  
    void drive() {  
        System.out.println("Car is driving");  
    }  
}
```

### Object :

**An object is an instance of a class.**

It is created using the new keyword and represents a real-world entity.

Example:

```
public class Main {  
    public static void main(String[] args) {  
        Car myCar = new Car(); // Object created from Car class  
        myCar.color = "Red";  
        myCar.drive();  
    }  
}
```

Key Points:

One class can be used to create many objects.

Each object has its own copy of instance variables.

Class = Design, Object = Actual thing built from that design