

Java Class and Object Example

In Java:

- **Class** → A blueprint/template for creating objects.
- **Object** → A real instance of a class.

Simple Example

```
class Student {  
  
    String name;  
    int age;  
  
    void display() {  
        System.out.println("Name: " + name);  
        System.out.println("Age: " + age);  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
  
        Student s1 = new Student();  
  
        s1.name = "Rahul";  
        s1.age = 20;  
  
        s1.display();  
    }  
}
```

Output

Name: Rahul
Age: 20

How it works

class Student

This creates a **class** named Student.

Student s1 = new Student();

This creates an **object** named s1.

s1.name = "Rahul";

s1.age = 20;

These assign values to the object's variables.

s1.display();

This calls the object's method.

Another Example: Car

```
class Car {  
  
    String color;  
    int speed;  
  
    void show() {  
        System.out.println("Color: " + color);  
        System.out.println("Speed: " + speed);  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
  
        Car c1 = new Car();  
  
        c1.color = "Red";  
        c1.speed = 120;  
  
        c1.show();  
    }  
}
```

Output

Color: Red
Speed: 120

Remember

Class → Blueprint

Object → Actual thing created from the blueprint

Student → Class

s1 → Object

Basic syntax:

```
class ClassName {  
    // variables  
    // methods  
}
```

```
ClassName objectName = new ClassName();
```