# **Constructor Chaining in Java - Exam Ready PDF**

### **11**Definition:

Constructor Chaining is when one constructor **calls another constructor** in the same class or parent class to **reuse code** and set default values.

```
Same class: use this()Parent class: use super()
```

### **2** Rules:

- 1. this() or super() **must be first statement** in constructor.
- 2. Recursive constructor calls are **not allowed**.
- 3. Can chain multiple constructors.

# **3**Example:

```
class Student {
    String name;
    int age;
    Student() {
        this("Unknown"); // Calls 1-param constructor
    }
    Student(String name) {
        this(name, 18); // Calls 2-param constructor
    Student(String name, int age) {
        this.name = name;
        this.age = age;
    }
    void display() {
        System.out.println("Name: " + name + ", Age: " + age);
    }
}
```

```
public class TestStudent {
    public static void main(String[] args) {
        Student s1 = new Student();
        s1.display();
    }
}
```

#### **Execution Flow:**

# **5** Key Points:

- Constructor chaining reuses constructor code
- this() = same class, super() = parent class
- Must be first statement
- Avoid recursive chaining (compile-time error)