

4. Writing a program in Java to verify the implementations of constructor types

```
public class ConstructorDemo {

    // Default constructor
    public ConstructorDemo() {
        System.out.println("Default constructor called");
    }

    // Parameterized constructor
    public ConstructorDemo(String name, int age) {
        System.out.println("Parameterized constructor called");
        System.out.println("Name: " + name);
        System.out.println("Age: " + age);
    }

    // Copy constructor
    public ConstructorDemo(ConstructorDemo other) {
        System.out.println("Copy constructor called");
        System.out.println("Name: " + other.name);
        System.out.println("Age: " + other.age);
    }

    private String name;
    private int age;

    public static void main(String[] args) {

        // Create object using default constructor
        ConstructorDemo obj1 = new ConstructorDemo();
```

```
// Create object using parameterized constructor
ConstructorDemo obj2 = new ConstructorDemo("John", 30);

// Create object using copy constructor
ConstructorDemo obj3 = new ConstructorDemo(obj2);

}
```

OUTPUT:

Default constructor called

Parameterized constructor calledName: John

Age: 30

Copy constructor calledName: null

Age: 0}