# SINGLETON IMPLEMENTATION

Code :

public class SingletonExample {

// Singleton class logic inside the same file

static class Singleton {

// Step 1: Create a private static instance

private static Singleton instance;

// Step 2: Private constructor

private Singleton() {

System.out.println("Singleton instance created");

}

// Step 3: Public method to provide access to the instance

public static Singleton getInstance() {

if (instance == null) {

instance = new Singleton(); // Lazy initialization

}

return instance;

}

// Example method

public void showMessage() {

System.out.println("Hello from Singleton!");

}

}

// Main method to test Singleton

public static void main(String[] args) {

Singleton obj1 = Singleton.getInstance();

obj1.showMessage();

Singleton obj2 = Singleton.getInstance();

System.out.println("Both objects are same: " + (obj1 == obj2)); // true

}

}

OUTPUT :

