## **Exercise 1: Implementing the Singleton Pattern**

```
package com.example.singleton;
public class Singleton {
   private static Singleton instance,
  private Singleton() {
     System. out.println("Singleton instance created.");
  }
  public static Singleton getInstance() {
     if (instance == null) {
        instance = new Singleton();
     }
     return instance,
  }
  public void showMessage() {
     System. out.println("I am from Singleton!");
  }
package com.example.singleton;
public class SingletonTest {
   public static void main(String[] args) {
     Singleton obj1 = Singleton. getInstance();
     Singleton obj2 = Singleton. getInstance();
     obj1.showMessage();
     System. out.println("Are both instances same? " + (obj1 == obj2));
  }
OUTPUT:
```

