## **Assignment: Implement Singleton Using Enum**

### **Problem Statement**

You are tasked with creating a **Logger utility** in Java. This Logger must be a **singleton**, meaning only one instance should exist across the entire application. You will use an **Enum-based Singleton implementation** to achieve this.

### **Requirements:**

1. Create an enum named AppLogger that acts as the singleton instance.
2. Inside AppLogger, provide a method log(String message) that simply prints messages to the console with a timestamp.  
    Example:

***[2025-09-04 10:30:12] INFO: Application started.***

1. Ensure that multiple parts of the program can use the same logger instance without creating new objects.
2. Write a demo program where:

* Two different classes (UserService and OrderService) use the **same logger instance**.
* Show that the logger instance is indeed the same by comparing references.

**Expected Output**

**[2025-09-04 10:30:12] INFO: User created successfully**

**[2025-09-04 10:30:13] INFO: Order placed successfully**

**Logger instance is the same across services: true**

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