

## COP3330C Module 7 Graded Programming Assignment

In this assignment we will modify the Module 6 solution to create a Java stream and corresponding consumer.

Change the Reminder queue by implementing a stream and queue that are wrapped in a class which is created as a Singleton object.

The rules for creating a Singleton:

1. Ensure that only one instance of the class exists.
2. Provide global access to that instance by declaring all constructors of the class to be private.
3. Providing static methods that returns references to the stream and queue.
4. The instance of the wrapper is stored as a static variable (instantiated when the program starts).

Then use the stream and queue in the Appointment Application's main method to iterate through the reminders in the queue.

Modify your reminder text; the template should show the localized full date **and time** of the appointment (use the `FormatStyle.FULL` enum).

Be sure to remember to add (accurate) ID headers for all of your new files.

Submit your solution to the GitHub classroom repo created when you accepted the assignment

Sample output is shown below.

```
Sending the following SMS message to John Smith at (904) 555-1212
+++++
+ Tuesday, February 28, 2023 at 6:04:42 PM Eastern Standard Time +
+ You have an appointment! +
+ John Smith +
+ Title: Test Appointment 1 +
+ Description: This is test appointment 1 +
+++++
```