**COP3330C Module 1 Graded Programming Assignment**

For our first graded assignment we will apply some of the language features of Java 17 to a simple Java application. Use the Module 1 practice exercise as a reference for this assignment.

Design and implement a Java program which creates appointments for a group of contacts.

1. Start by creating a class to represent a **Contact**. This class must include the following private attributes:

   - Last Name
   - First Name
   - Email address
   - Phone Number // e.g. (904) 111-2222

   - Provide an overloaded constructor and getters for each of these fields (no setters are necessary).
   - Provide a method which returns the contact's "friendly name" as "FirstName LastName", e.g. "John Smith".
   - Provide an overridden toString method which displays the contact's information in a readable format.

2. Create a class to represent an **Appointment**. This class must include the following private attributes:

   - Title // title of appointment, e.g. "Checkup with Dr. Roberts"
   - Description // a brief 1-2 line summary of the appointment
   - Date // date of the appointment, e.g. Jan 17, 2024
   - Time // time of the appointment, e.g. 10:30:00
   - Contact // Owner-Scheduler of the appointment, this is a reference to a Contact object

   - Provide an overloaded constructor and getters for each of these fields (no setters are necessary).
   - Provide an overridden toString method which displays the appointment information in a readable format (this is not the reminder). The Contact information should be included by calling the Contact class's toString method.

3. Create a main application class. I called mine "AppointmentApp". This class will contain the application's main method. It must also include the following private attributes:

   - an **array** of **Contact** objects with a constant size declarator of **10**
   - an **array** of **Appointment** objects with a size declarator of 10 (use the previous constant)

   - Provide an overridden toString method which returns a String containing the appointment information for all contacts in the array (be sure to display the contact information).
   - Provide a main method which instantiates an application object, inserts 3 contacts into the contact array, inserts 3 appointments for those contacts in the appointment array, then displays the appointment information for the appointments in the array.

Additional non-functional requirements:

- The application must use the **var** keyword at least once to demonstrate LVTI (Local Variable Type Inference).
- One or more **text blocks** must be used in the output to demonstrate the text blocks feature.
- **All classes must be saved in a single .java file**; only the application class should be declared public.
- Use the following package name for your application:

**package edu.fscj.cop3330c.calendar**

Submit your project to the GitHub Classroom repository. There is no Canvas submission for this assignment.

Sample output is shown below. No user input is required for this application.

**The following appointments**
**were found in our data:**
**Appointment:**
**Title: Test Appointment 1**
**Desc: Description for Test Appointment 1**
**Contact: John Smith,John.Smith@email.com,(904) 555-1212**
**Appt Date/Time: 1/17/2024 10:30:00**
**Appointment:**
**Title: Test Appointment 2**
**Desc: Description for Test Appointment 2**
**Contact: Sally Rogers,Sally.Rogers@email.com,(904) 555-2323**
**Appt Date/Time: 7/13/2024 14:00:00**
**Appointment:**
**Title: Test Appointment 2**
**Desc: Description for Test Appointment 2**
**Contact: Rodney Davis,Rodney.Davis@email.com,(904) 555-3434**
**Appt Date/Time: 711/2/2024 08:45:00**