Kotlin Course Labs

Lab 1.

- 1. Create a service class called **CustomerService** which will allow you to interact with **Customer** resources. The **CustomerService** class should allow you to
 - 1. Retrieve a Customer using a customer id.
 - 2. Retrieve all customers.
 - 3. Insert a customer.
 - 4. Optionally, you can add functionality to update and delete a customer.
- 2. The **CustomerService** should use a **CustomerDAO** to "persist" customers. Choose a suitable collection class to store your Customers. The DAO should implement basic crud operations:
 - 1. insert
 - 2. update
 - 3. delete
 - 4. find(long id)
 - 5. findAll.
- 3. The **Customer** class should have at least the following properties:
 - 1. An id
 - 2. A name
 - 3. A dateOfBirth of type **LocalDate**
 - 1. You can initialize a LocalDate with the *of* method, e.g. LocalDate.of(1957, 10, 10)
 - 4. Zero or more phone numbers
 - 5. An email
 - 6. A status, which can have the following values:
 - Privileged
 - Normal
 - Restricted
- 4. Test your CustomerService class by creating several customers and printing out their information.

Lab 2.

- 1. Add functionality to your application to be able to retrieve a subset of Customers based on some criteria that the user will provide as an argument, e.g.
 - 1. Find all Customers with a Status of Privileged
 - 2. Find all Customers who have at least one phone number
 - 3. Find all Customers older than a certain age. This may require a look through the javadoc for LocalDate. Or you can ask your Instructor.