**Programming with Java and JDBC Primary Assessment**

**Evaluation Criteria**

• Does the Java code provide an accurate and complete solution for the stated requirements?

• Are sound object-oriented principles used in the Java code?

• Are exceptions used to manage errors that can occur in the code?

• Use of JDBC, Collections and Streams API?

• Java Code best practices followed?

**Assessment Scenario**

MyDocs is an online document sharing application. The user’s needs to login with their username and password to use the services of the application. MyDocs team has approached you to create the login module for the application.

The users must login through a login form (create main app which will take login details through standard I/O). If login is success then print a greeting message “Hello <user>” where <user> is the username entered by the user. The user name/password should exist in the database for successfully login into the application. Use PostgreSQL/MySQL database for storing user credentials. Data layer should use JDBC specs.

If the username/password is incorrect the user should display to error message with the error message “username (or) password is incorrect”.

Once user is logged in and have role of admin then user should access the list of users and able to display sorted list on console.

# Tasks:

Define the Java classes that are required to implement the functionality that is described above. Be sure to use sound object-oriented principles in your Java code. Follow the layered architecture concepts in your code. Write Junit test cases for all the classes and the methods.

**Print the exceptions in standard console.**