

LAB ASSIGNMENT #6 – Sockets and JDBC

Due Date: Wednesday, April 16, 2014.

Purpose: The purpose of this Lab assignment is to:

- Develop Java applications with Data Access capabilities
- Practice the use JDBC
- Practice the use of Sockets

References: Read the course's text "Introduction To Java Programming, 9th edition", <http://www.cs.armstrong.edu/liang/intro9e/>, chapter 33, 34 and the ppt slides. This material provides the necessary information that you need to complete the exercises.

This lab must be completed individually by all the students. You will have to demonstrate your solution in a scheduled lab session when submitting the assignment. The assignments/projects should be submitted **through the assignment link on Blackboard**.

The Eclipse project for this assignment should be named as: *FullName_CXC320_Assignment6*. Each exercise should be included in a separate package. For example, first exercise in a package named *exercise1*, etc.

The entire project directory should be zipped in a file named as *FullName_CXC320_Assignment6*.

Exercise #1:

Develop a Java application that uses Socket API. Allow the client (TCP – based or UDP- based) to upload files or images to the server. Use a JFileChooser to allow the user to select the desired files.

(4 marks)

Exercise #2:

Create a MYSQL database with a table named *Product*. Write a Java application (GUI) that allows users to *insert*, *update*, *delete*, and *display* products. Here is the definition of table Product:

productId - String

productDescription -String

productPrice - double

Use *prepared statements* to implement all database operations.

(6 marks)