Assignment 1 – JDBC

Practical Questions (implementation to be shown before **31/08/2019**)

1. Create a simple JDBC program to establish connection to the database and select all the records of a sample table and display the same on the console. Use getConnection(String url, Properties info) overloaded form of the method.
2. Demonstrate the usage of getTables() in DatabaseMetaData interface, Also enhance it to print the column names of one table.

(Note: Create 3 tables and get all the table names)

1. Usage of CallableStatement with a dynamic query –

Write Stored Procedure to select/count the number of records with sample USN = 51 from a sample table STUDENT. If it exists, update the record to change the firstname and lastname. If it doesn’t exist, create a new record with USN 51. Call this stored Procedure as studentUpsert().

Theory Questions (**to be written in the Assignment Bluebook and submitted on or before Sep 3rd 2019**)

1. Differentiate between – JDBC and ODBC, BLOB and CLOB datatypes
2. Write a note on – IN, OUT and INOUT parameters w.r.t Stored Procedures.
3. What are transactions? Why are they used?

Write a sample JDBC program to use transactions.

1. Why do we need to close necessary JDBC objects?
2. Define Connection Pool. What are the benefits of using ConnectionPool? What different design patterns does the JDBC API expose?