Department of Computing

Syed Muhammad Dawoud Sheraz Ali-111417

BESE-5B

**Lab 5: City Search**

**Date: March 29th, 2017**

**SE312: Software Construction**

**Instructor: Fahad Ahmed Satti**

**Lab Engineer: Ms. Maryam Sajjad**

**GitHub:** <https://github.com/SyedDawoud/University/tree/master/Software%20Construction/Labs>

# Introduction

In this lab, we are to save data from a CSV file to a mysql database, and then use that data to search the cities accordingly. By using Hibernate Session, the data is saved into the database.

# Approach & Analysis

The basic approach followed is to store the data inside database. First, CSV file is read and data is inserted based on the commas. Then, next step is to find the cities based on longitude and latitude. This involved the use of simple query. Next step was to search the neighbor cities based on longitude and latitude. It involved the use of Great Distance Formula.

There were many problems while doing this lab. First, Hibernate couldn’t be connected properly. Then, there were many issues of proper data insertion and data retrieval.

# Running the Code

This application requires the installation of the Hibernate. It must be setup before code can be used.