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**Lab 5**

**Github Link:** https://github.com/aminrashid/Software-Construction

**Introduction:** In this lab the task was to create an application that is able to load data from a given CSV file to a database using hibernate ORM. After which the user is allowed to search for the longitude and latitude of a city and the user can search 5 cities near to a given point or city.

**Approach:** The approach I took was of creating a database firstly with all the 9 columns from the CSV file we were provided with. After which I made a persistent class consisting of all the getter and setters for the different variables. I created a mapping file to the persistent class and then just read the CSV file to be able to search for the different longitudes and latitudes.

**Design:** So I created a “city” class with all the variables and their respective getters and setters. Created a database with all the columns from the CSV file and then read the data from the CSV file to be able to search the locations

**How to Run and Analysis:** It is very easy to run as you just have to input the city or point of longitudes and latitudes for which 5cities are searched that nearest to it.