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**Lab 6**

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

**Introduction:** In this lab the task was to create an application that is able to search cities near any point, distances between the two cities and cities that are near to a particular city using the hibernate annotations. The data is saved in the database which is read from the csv file to get all the details about the cities and countries

**Approach:** Searched for the cities using a function as well as the distance between 2 cities and cities that are near to each other.

**Design:** Created the database and used the database to find the cities and the distances between them using “The Great First Circle Formula”. As well as to find out which cities are close to one another.

**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.