# Instructions to run the project

## Executable jar file

1. The executable .jar file of the project is named NR\_testjar.jar.
2. It is inside a zip folder named executable\_code.
3. Make sure to keep the inputFile folder in the same location as the .jar file.
4. To run this, open the terminal and navigate to the location of the .jar file.
5. Run command: **java -jar NR\_testjar.jar**
6. The output of the program should be displayed on the terminal.

A screenshot of a computer

Description automatically generated with medium confidence

## Java Code

1. The Java Code for this project is divided into the following sub-folders of the src folder:
   1. Main: contains TestMain class which is the entry point of the program
   2. Pojoclasses: contains two classes (Coordinates and Customer)
   3. Test: contains a test class called CustomerServiceTest.java
   4. Util: contains two classes (JsonReader and OutputHelper)
   5. inputFile: contains the input file (customers.txt)
   6. Lib: contains libraries used in this project (Jackson, jsonassert and JSON)
2. The code is contained in a **zip folder named Neesha** and has been developed using Eclipse Version: 2021-03 (4.19.0) IDE and Java 8.
3. While running the project from the IDE, TestMain should be chosen as the main runnable class.

## Test Cases

1. The test cases are written inside the class **CustomerServiceTest.java**
2. They can be run by right-clicking on the file name in the test package
3. It contains 3 methods for validating distance calculation and JSON parsing while reading input from the customers.txt file from the JSONReader class.

## Output File

1. **Output.txt** file is provided which captures the output of the program as printed on the console.

The distances are printed once and the commented out in the Output Helper class in the following line //System.out.println(distance + " "+ ((Customer) customer).getUser\_id() + " " +((Customer) customer).getName());

## Proudest Achievement

My proudest achievement would be my selection in the Google challenge Scholarship in 2017 out of 1000 participants worldwide. It was a two-step process. First, we were asked to complete a 3 months android foundation course and then based on our project submissions and engagement in the community support via the Slack group, the selections for another 6 months phase were done. It gave me a chance to dig deep into various components of the android SDK and I had to build 8 applications to pass the Nanodegree that was presented to us during that phase. Managing the extra work on top of my job was something I had to learn along the way. In more ways than I can comprehend, this Scholarship shaped my perception of applying technology to impact the lives of people.