**Required Software for setting up the environment**

1. Java 1.8 or above

<https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Once installed, open terminal and run command ***java –version*** to check if java is correctly installed. After running the command, you should see Java Runtime version.

1. Maven 3.5 or above

<https://maven.apache.org/download.cgi>

Once installed, open terminal and run command ***mvn -version*** to check if maven is correctly installed. After running the command, you should see maven version.

1. Eclipse

<https://www.eclipse.org/downloads/packages/release/photon/r>

**Steps to setup the code**

1. Extract the FoaAssignment.zip
2. Extract SensorCoverage.zip
3. Open eclipse, GoTo File > Import > Existing project in workspace > Browse the project and import the project.
4. Right click on pom.xml and Run the POM.xml to install the dependencies by setting the goal as below (choose maven build)

A screenshot of a social media post

Description automatically generated

1. Right click on App.java file and Run as Java Application.

A screenshot of a cell phone

Description automatically generated

1. The test case can be added, deleted, updated in the input.txt file in resources/input folder.
2. The output graphs will be displayed for each test case
3. Input connected graph
4. Minimum Spanning Tree of graph
5. Graph Solution for MNCC
6. Graph Solution for MLCC