**CS5100 - Weather Predictor**

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**Description:**

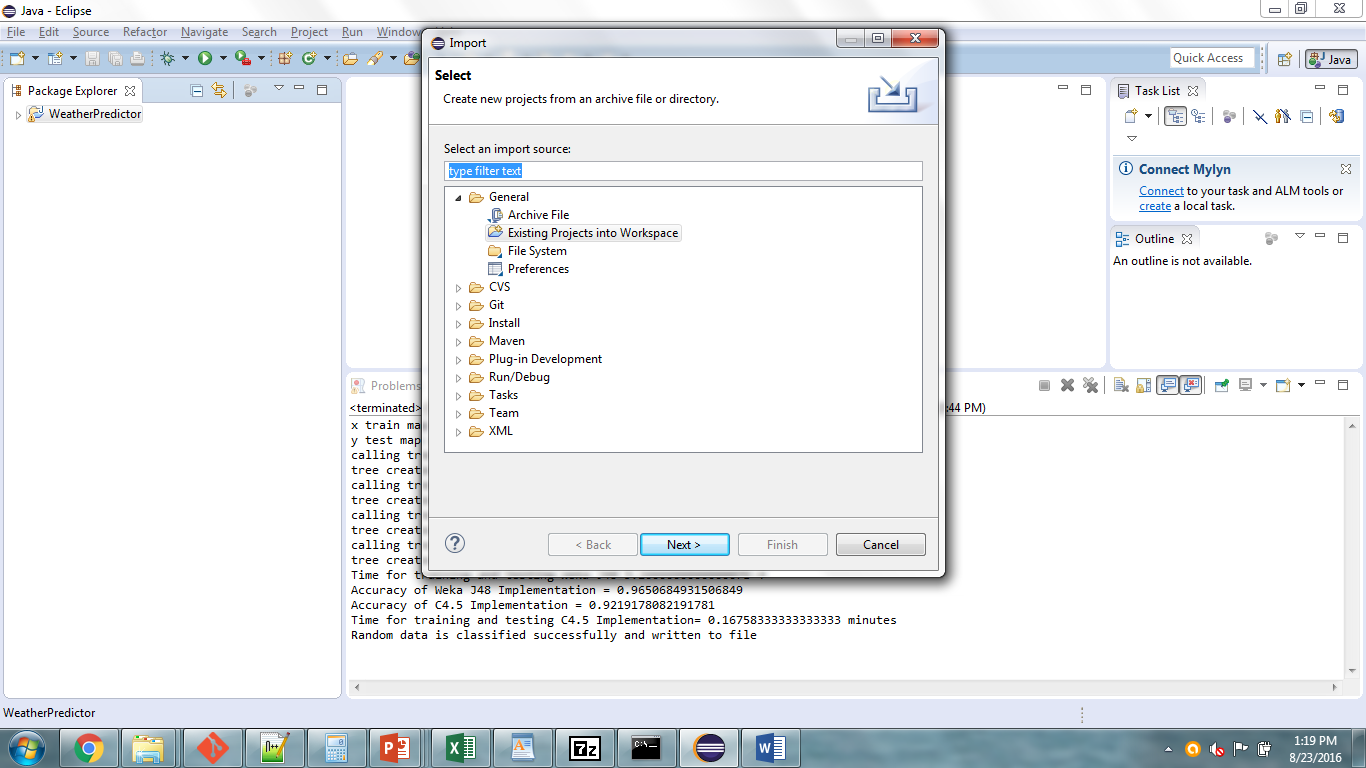
Predict the occurrences of various weather phenomenon like Rain, Fog, Snow, Thunderstorm using a decision tree classifier implemented using C4.5 algorithm suggested by Quinlan

Download the project folder from **https://drive.google.com/drive/folders/0B9m5qbswJ6gibEVNUmJwYmtsVGM**

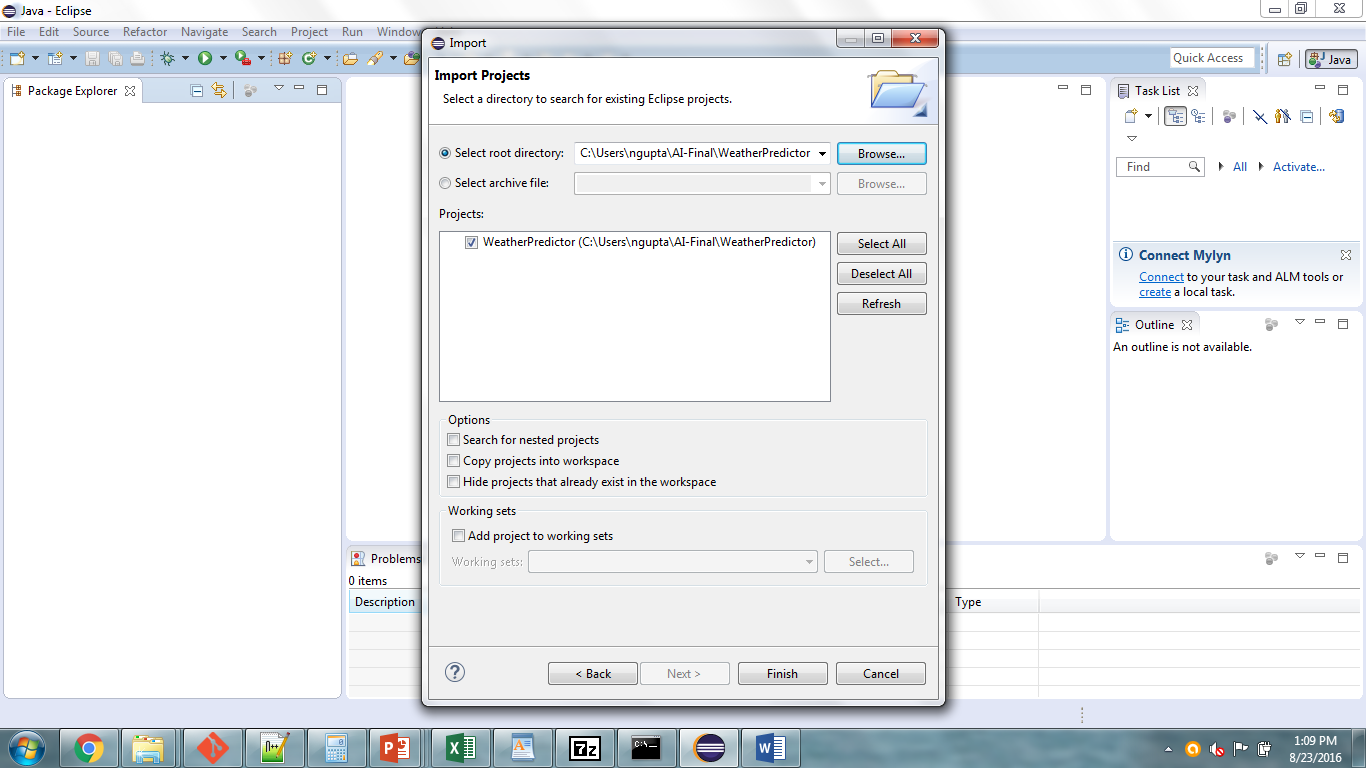
Extract the source folder (Weather-Predictor that contains the source Java and input files) from the zipped folder we just downloaded and save it to a convenient location on computer.

**Steps to execute the Weather Predictor Project from Eclipse**

1. After opening Eclipse IDE, go to **Imports** in **File** Menu and select **Existing projects into Workspace** inside **General folder**



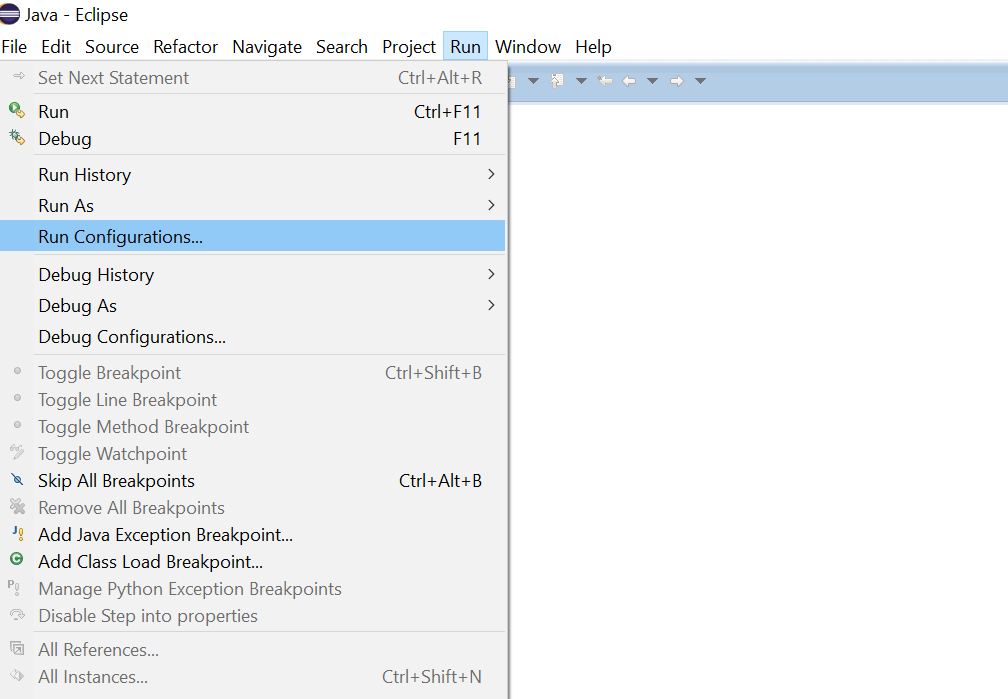
1. **Import Dialog box** is displayed. Select the **root directory** and browse to the folder **WeatherPredictor** we just extracted.



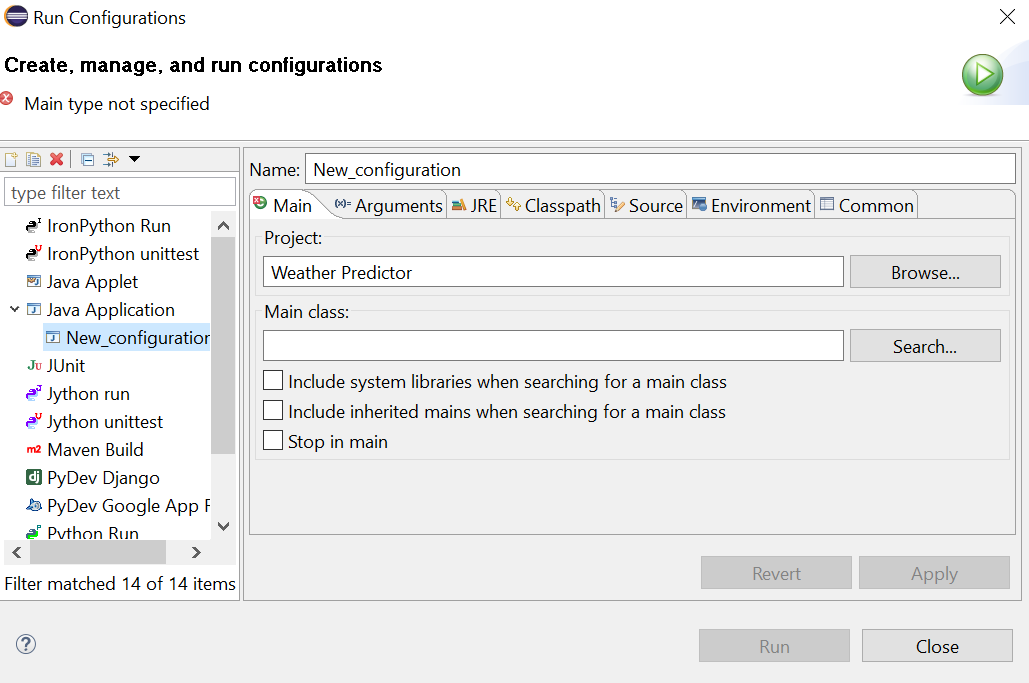
Click on **Finish**

3. Select the **WeatherPredictor** Project that gets created on **Package** **Explorer** and click on **Run**.

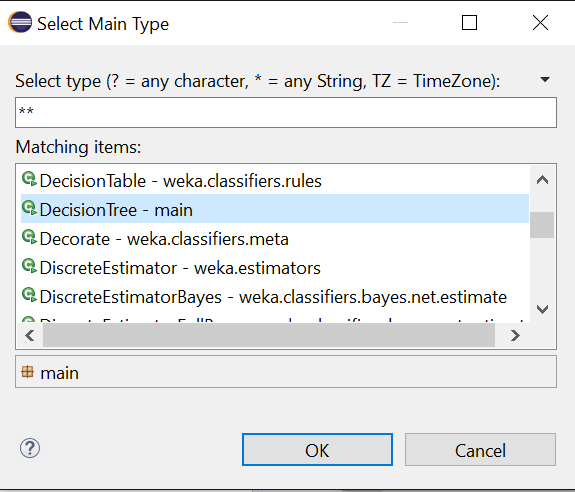
4. Click on **Java ->Run Configurations**



5. Select **Java Application** from left pane



6. Click on search button beside Main class. A dialog box appears, now select **DecisionTree-main** from the drop down menu, as this Java file holds the main method of our application.



Hit **Ok** to proceed

7. Click on **Arguments** tab and input the file names in the following order

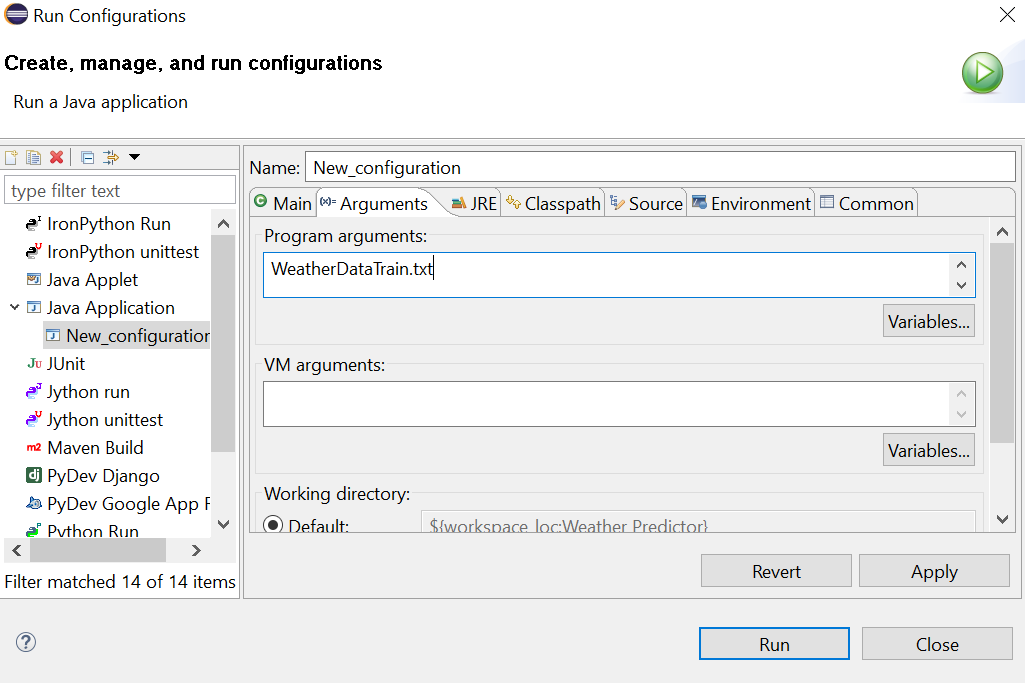
WeatherDataTrain.txt

WeatherDataTest.txt

randomData.csv

output.txt

Click on **Apply**



6. Click on **Run**. The Java project is then executed and prints the output (performance parameters like Execution time, Prediction accuracy) on console. Additionally, an output.txt file gets created inside the java project that predicts the weather phenomenon for random data sent as input to the program