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### #1 Introduction

This project labels the 'play' attribute in a dataset . The other attributes are 'HighTemp', 'LowTemp', 'MeanTemp', 'HighHumd', 'LowHumd', 'MeanHumd', 'CloudCover' and 'WindSpeed'. The idea is that when it rains , it is not preferred to go outside and play. So , the weather data that we have can be used to build a classification model that can be used to predict whether on a given day (whose weather conditions are given), it is favourable to go outside play or not.

### #2 Requirements

1. You must have JDK 1.7.x or above installed on your system and it should be added to your PATH variable.
2. You should have downloaded the weka library. It can be downloaded from <http://www.cs.waikato.ac.nz/ml/weka/downloading.html>

### #3 How to compile and run ?

WAY 1. From NetBeans or Eclipse or any other IDE  
Just import the project files and the weka libraries and run.

WAY 2. From Command Line  
From here on , considering we are in WeatherPrediction/src/ folder  
'pathlib1' = ../library/weka.jar  
'pathlib2' = ../library/weka-src.jar  
'curdir' = ../src/  
~\$ javac -classpath "pathlib1:pathlib2" PredictPlay.java  
~\$ java -classpath "pathlib1:pathlib2:curdir" PredictPlay

WAY 3. If you are using linux based OS , using terminal go inside the src folder and type  
sh RUN.sh

### #4 How to use ?

We have already collected the training data. When you run the program , you get three options.

Choose [1] if you want to manually enter the details of a day for which you like to predict 'play'.

Choose [2] if you want to give a testing data in proper ARFF format , for which you would like to predict 'play'

Choose [3] if you want to use our sample testing data to predict 'play'.

You can view the training data in 'weather.arff' and the sample testing data in 'predictweather.arff'.

### #5 Contact

You can contact us at :

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