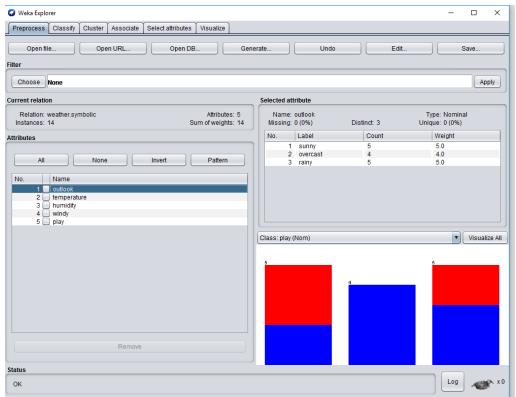
# INLS 623 – In Class Assignment: Decision Trees

Date Assigned: March 30, 2017

Completion Date: April 6, 2017 (11:55pm)

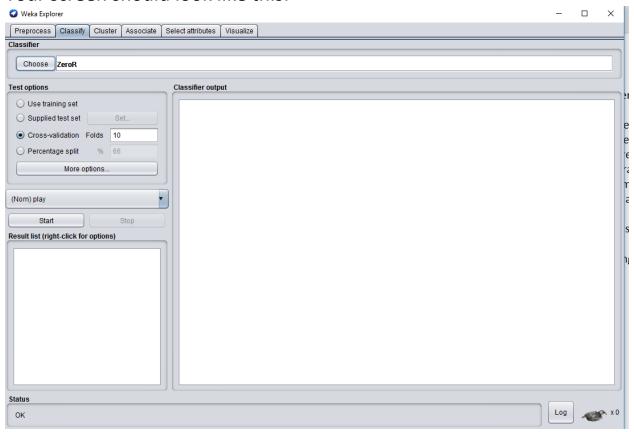
Open the file named: weather.nominal.arff in weka. This file can be found in: C:\Program Files\Weka-3-8\data.

## Your screen should look like this:



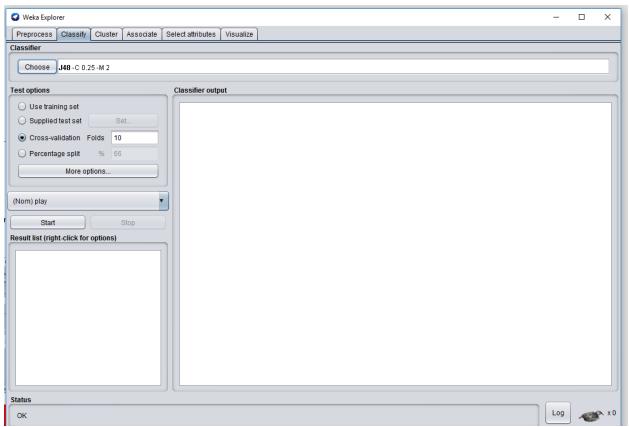
Next, click on the classify tab.

## Your screen should look like this:

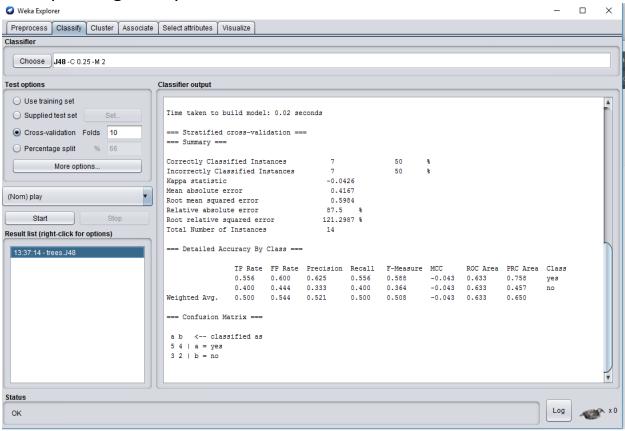


Click the choose button, open the trees folder, and select J48 (this is the decision tree). Click the start button.

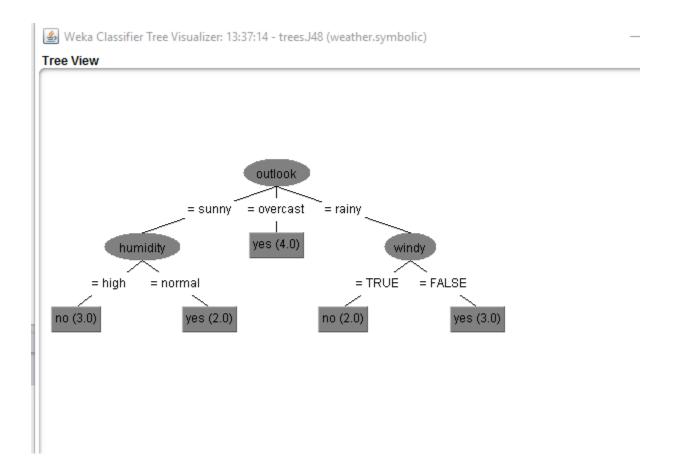
Your screen should look like this.



## After pressing start your screen should look like this:



#### Your decision tree should look like this:

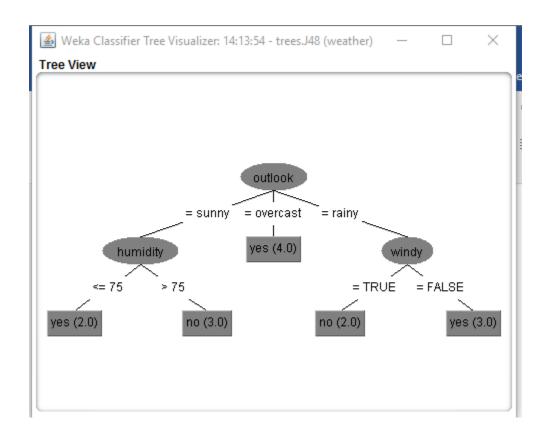


1. Write down the rules of the decision tree using if else statements. For example,

```
Varchar play = "";
if(outlook == overcast)
    play = "yes";
```

- 2. Create a stored procedure named PREDICT\_PLAY\_CLASS\_NOMINAL. This stored procedure takes 3 IN parameters, outlook, humidity, and windy. It takes 1 OUT parameter play, which returns a 1 for yes (meaning I should go outside and play) and a 0 for no.
- 3. Perform the same steps for the file: weather.numeric.arff.

### Your decision tree should look like this:



- 1. Write down the rules of the decision tree using if else statements.
- 2. Create a stored procedure named PREDICT\_PLAY\_CLASS\_NUMERIC. This stored procedure takes 3 parameters, outlook, humidity, and windy. It takes 1 OUT parameter play, which returns a 1 for yes (meaning I should go outside and play) and a 0 for no.