CO328 - Machine Learning
Weka Lab - Part 2
E/16/319 Rathnayake R.P.V.N

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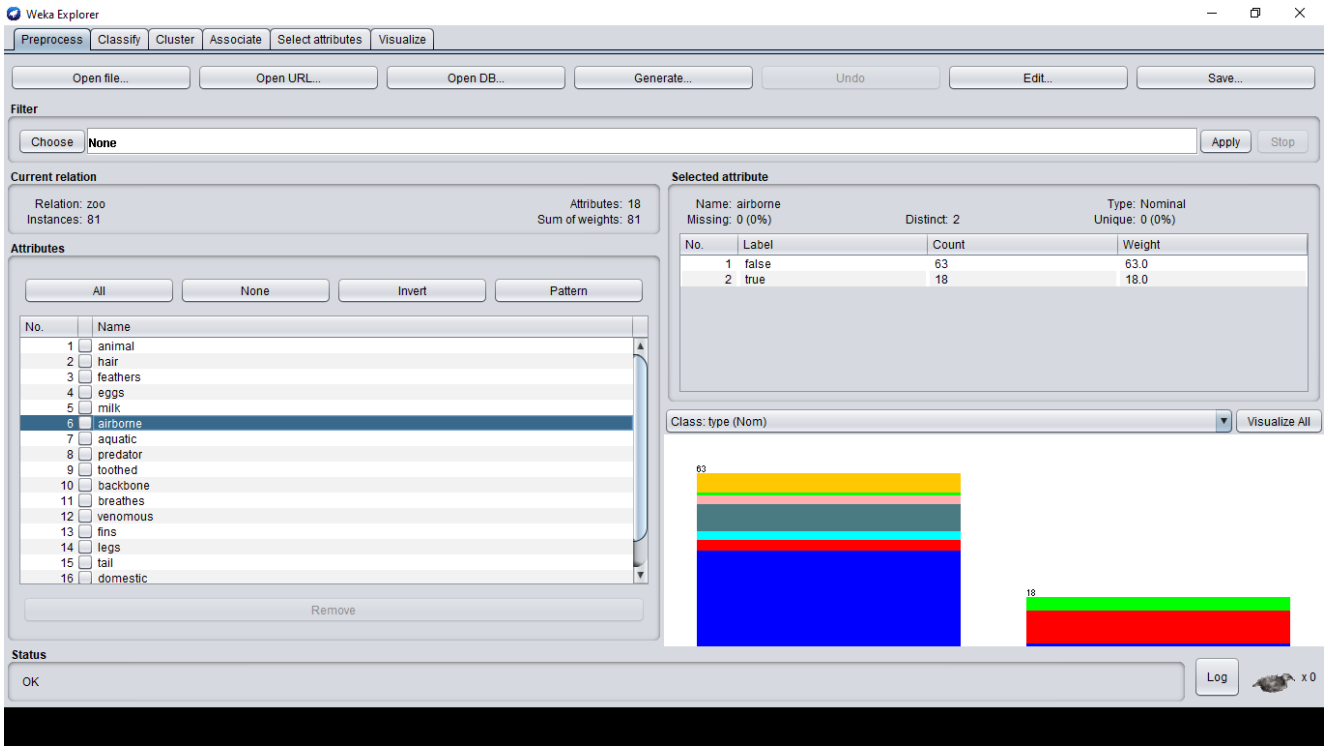
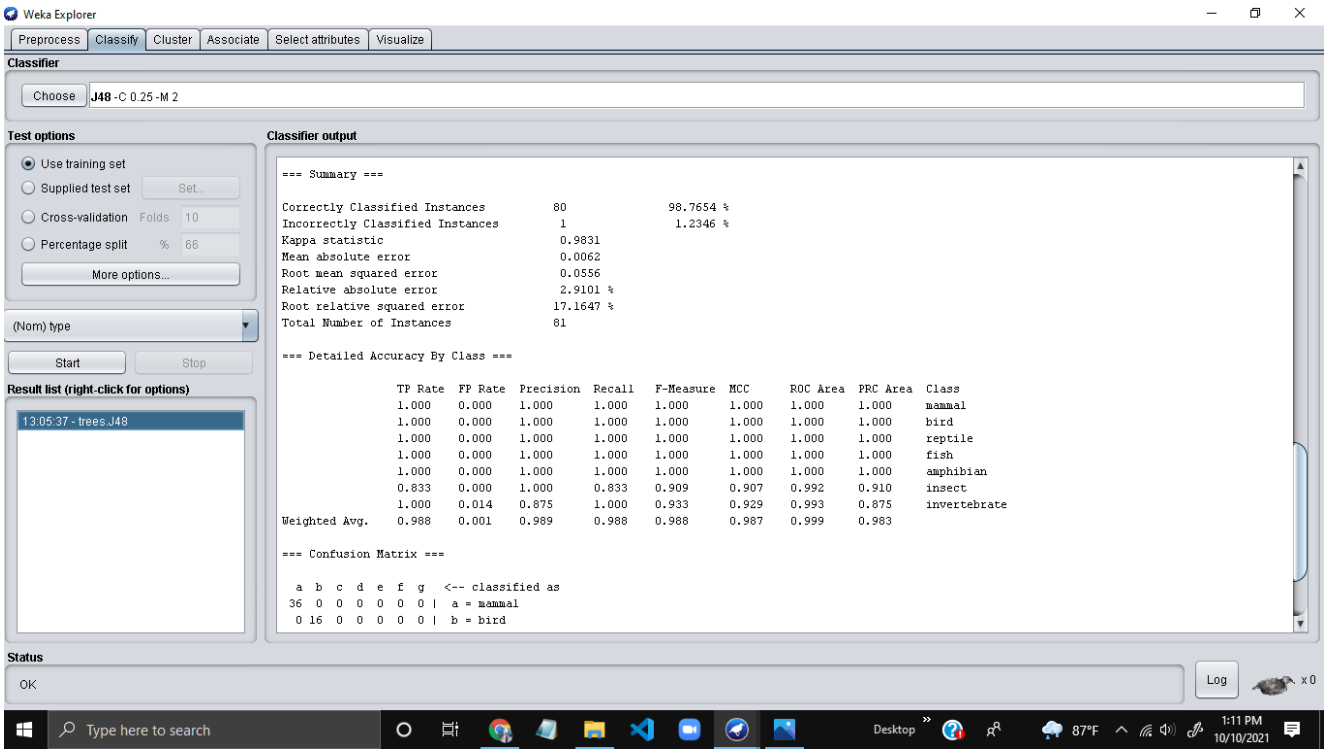
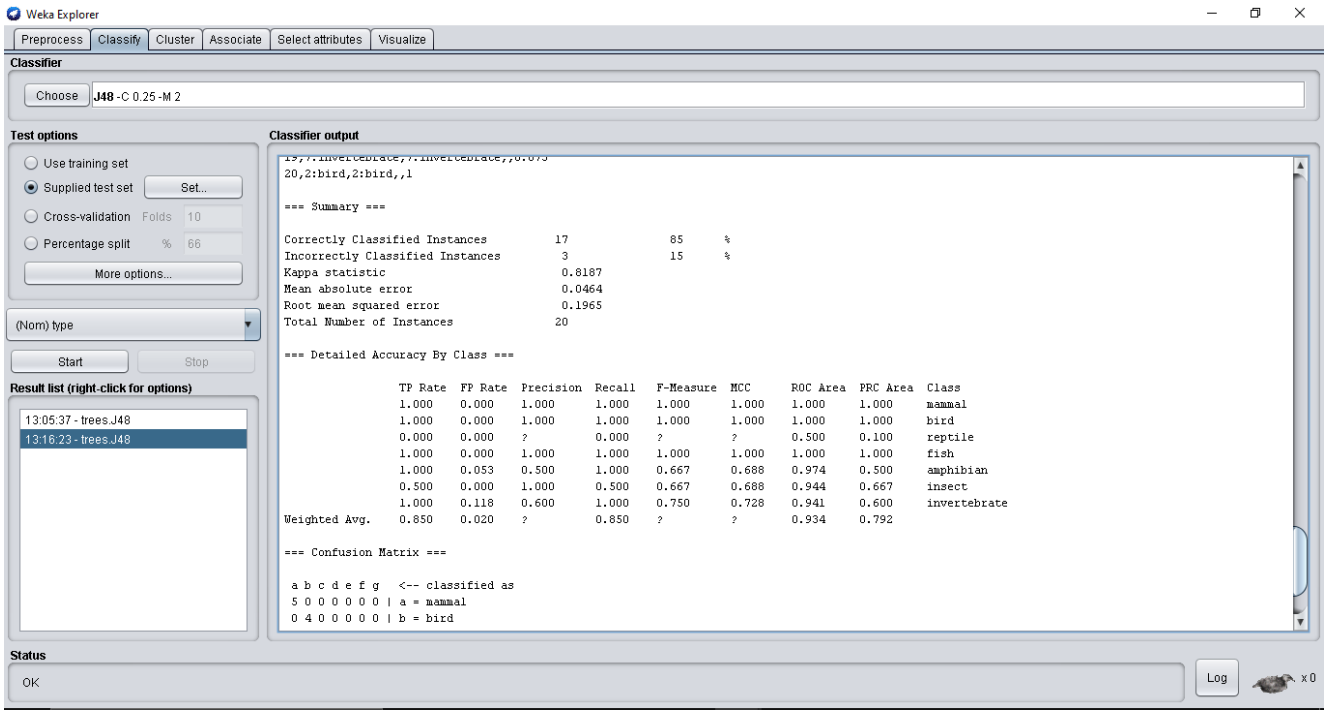
01. Load zoo_train.arff



02. Build C4.5 decision tree - training set



03. 04.



Exercise

01

Correctly Classified Instances	80	98.7654 %
Incorrectly Classified Instances	1	1.2346 %
Kappa statistic		0.9831
Mean absolute error		0.0062
Root mean squared error		0.0556
Relative absolute error		2.9101 %
Root relative squared error		17.1647 %

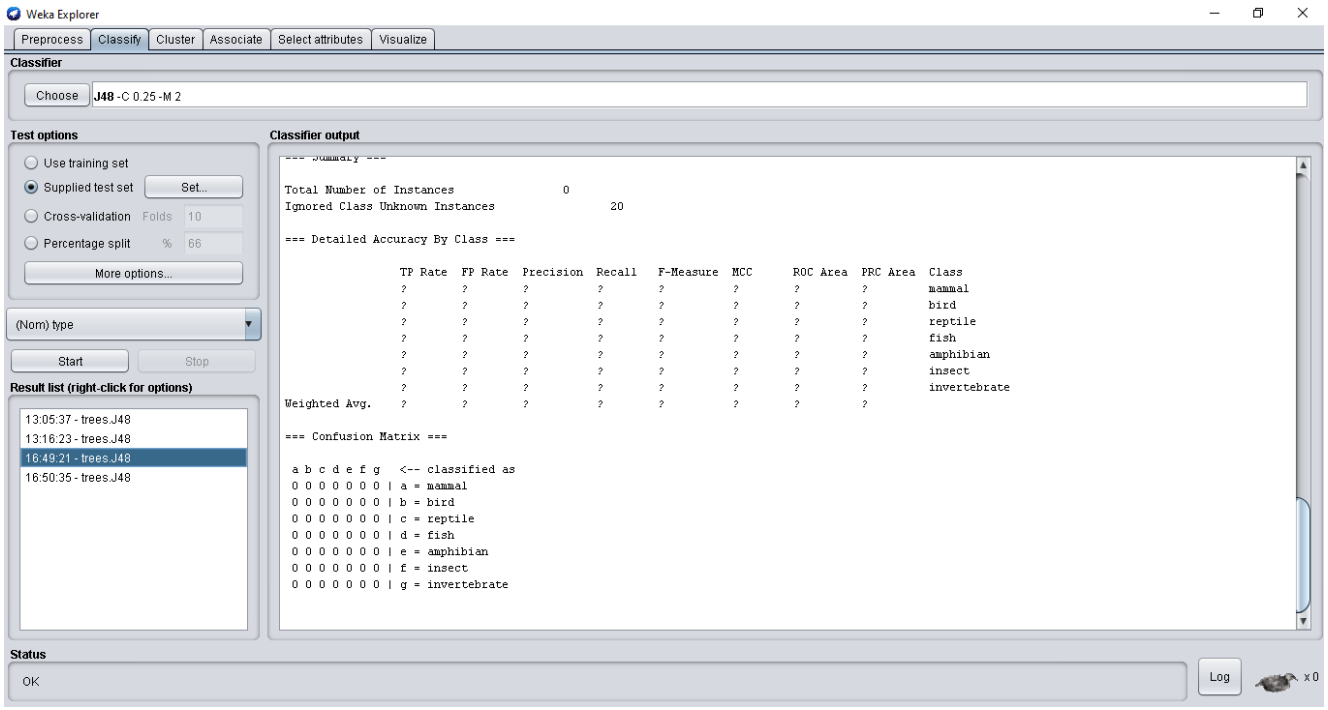
02.

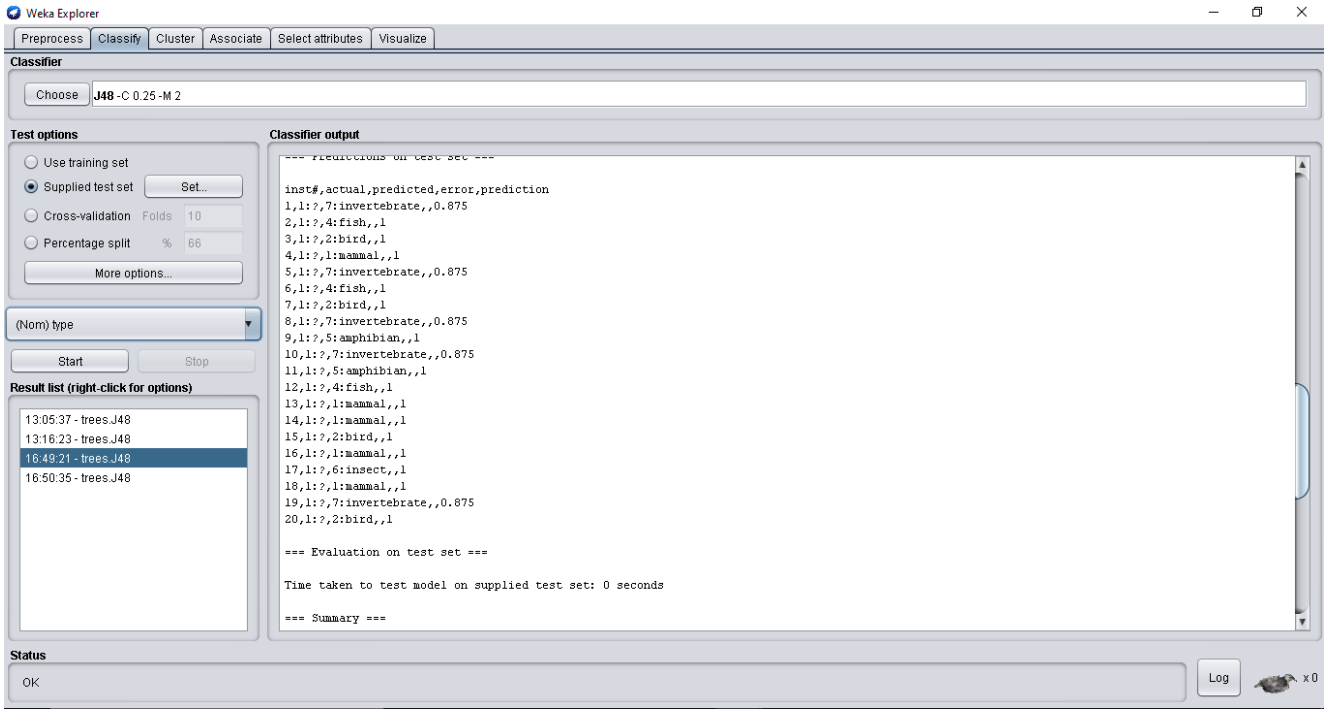
Correctly Classified Instances	17	85 %
Incorrectly Classified Instances	3	15 %
Kappa statistic		0.8187
Mean absolute error		0.0464
Root mean squared error		0.1965
Total Number of Instances		20

03.

The accuracy of predicting correct predict is higher for the training set than the test set model is fitted to the train set more perfectly but for the test set it shows only 85% accuracy. When we looking at the confusion matrix we can see that reptile prediction is 100% incorrect for test set.

04.





It gives no prediction this may because of missing values.