1- Result file "Evaluated start with vowel"

=== Run information ===

Scheme: weka.classifiers.trees.J48 -C 0.25 -M 2
Relation: names2
Instances: 100
Attributes: 3
          Names
          Vowels
          Output
Test mode: split 66.0% train, remainder test

=== Classifier model (full training set) ===

J48 pruned tree

Vowels = YES: - (46.0/5.0)
Vowels = NO: + (54.0/9.0)

Number of Leaves :   2

Size of the tree :   3

Time taken to build model: 0.03 seconds

=== Evaluation on test split ===

Time taken to test model on test split: 0.02 seconds

=== Summary ===

Correctly Classified Instances   30   88.2353 %
Incorrectly Classified Instances   4   11.7647 %
Kappa statistic   0.7647
Mean absolute error   0.231
Root mean squared error   0.3218
Relative absolute error   45.8752 %
Root relative squared error   63.8172 %
Total Number of Instances   34

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.842	0.067	0.941	0.842	0.889	0.770	0.888	0.881	-
	0.933	0.158	0.824	0.933	0.875	0.770	0.888	0.798	+
Weighted Avg.	0.882	0.107	0.889	0.882	0.883	0.770	0.888	0.844	

=== Confusion Matrix ===

```
 a  b  <-- classified as
16  3 |  a = -
 1 14 |  b = +
```

2- Result file "Evaluated using Length of characters less than equal to 5"
=== Run information ===

Scheme: weka.classifiers.trees.J48 -C 0.25 -M 2
Relation: names3
Instances: 100
Attributes: 3
          Names
          Length
          Output
Test mode: evaluate on training data

=== Classifier model (full training set) ===

J48 pruned tree

Length = False: - (55.0/21.0)
Length = True: + (45.0/16.0)

Number of Leaves :   2

Size of the tree :   3

Time taken to build model: 0 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correctly Classified Instances   63   63   %
Incorrectly Classified Instances   37   37   %
Kappa statistic   0.26
Mean absolute error   0.4659
Root mean squared error   0.4826
Relative absolute error   93.1717 %
Root relative squared error   96.5255 %
Total Number of Instances   100

=== Detailed Accuracy By Class ===

TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
0.680	0.420	0.618	0.680	0.648	0.261	0.630	0.580	-
0.580	0.320	0.644	0.580	0.611	0.261	0.630	0.584	+
Weighted Avg. 0.630	0.370	0.631	0.630	0.629	0.261	0.630	0.582	

=== Confusion Matrix ===

```
 a  b   <-- classified as
34 16 |  a = -
21 29 |  b = +
```

3- Result using even odd number of characters

=== Run information ===

Scheme: weka.classifiers.trees.J48 -C 0.25 -M 2
Relation: names1
Instances: 100
Attributes: 3
          Names
          Even odd
          Output
Test mode: evaluate on training data

=== Classifier model (full training set) ===

J48 pruned tree

Even odd <= 5: - (55.0/21.0)
Even odd > 5: + (45.0/16.0)

Number of Leaves :   2

Size of the tree :   3

Time taken to build model: 0 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0.01 seconds

=== Summary ===

Correctly Classified Instances   63   63   %
Incorrectly Classified Instances   37   37   %
Kappa statistic   0.26
Mean absolute error   0.4659
Root mean squared error   0.4826
Relative absolute error   93.1717 %
Root relative squared error   96.5255 %
Total Number of Instances   100

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.680	0.420	0.618	0.680	0.648	0.261	0.630	0.580	-
	0.580	0.320	0.644	0.580	0.611	0.261	0.630	0.584	+
Weighted Avg.	0.630	0.370	0.631	0.630	0.629	0.261	0.630	0.582	

=== Confusion Matrix ===

```
 a  b   <-- classified as
34 16 |  a = -
21 29 |  b = +
```