8. Note down the results in the below table.

	Correctly classified instances	Incorrectly classified instances
Training Set	92.2581 %	7.7419 %
Cross validation(10 folds)	83.871 %	16.129 %

9. Interpret the results from the 'confusion matrix' in the classifier output.

For Training set

=== Confusion Matrix ===

a	b	<-- classified as
22	10	a = DIE
2	121	b = LIVE

For cross validation=10

=== Confusion Matrix ===

a	b	<-- classified as
14	18	a = DIE
7	116	b = LIVE

10. Change the parameters as below and compare the results with the results of the above model with default values. Confidence factor: 0.5 and Min number of folds: 2

Results

Default value

Confidence factor : 0.25 Min number of folds : 3

Results

Correctly Classified Instances	143	92.2581 %
Incorrectly Classified Instances	12	7.7419 %
Kappa statistic	0.7396	

Mean absolute error	0.1272
Root mean squared error	0.243
Relative absolute error	38.5514 %
Root relative squared error	60.0371 %
Total Number of Instances	155

=== Confusion Matrix ===

a	b	<-- classified as
22	10	a = DIE
2	121	b = LIVE

Min num of folds:2

Correctly Classified Instances	143	92.2581 %
Incorrectly Classified Instances	12	7.7419 %
Kappa statistic	0.7396	
Mean absolute error	0.1272	
Root mean squared error	0.243	
Relative absolute error	38.5514 %	
Root relative squared error	60.0371 %	

=== Confusion Matrix ===

a	b	<-- classified as
22	10	a = DIE
2	121	b = LIVE

Confidence factor :0.5

Correctly Classified Instances 149 96.129 %

Incorrectly Classified Instances 6 3.871 %

Kappa statistic 0.8791

Mean absolute error 0.0836

Root mean squared error 0.1857

Relative absolute error 25.3344 %

Root relative squared error 45.8866 %

=== Confusion Matrix ===

```
  a   b   <-- classified as
 28   4 |   a = DIE
  2 121 |   b = LIVE
```

Min num of folds:3 and Confidence factor:0.5

Correctly Classified Instances 149 96.129 %

Incorrectly Classified Instances 6 3.871 %

Kappa statistic 0.8791

Mean absolute error 0.0836

Root mean squared error 0.1857

Relative absolute error 25.3344 %

Root relative squared error 45.8866 %

=== Confusion Matrix ===

```
  a   b   <-- classified as
 28   4 |   a = DIE
  2 121 |   b = LIVE
```

Cross validations folds:3 and confidence factor:0.5

Correctly Classified Instances	125	80.6452 %
Incorrectly Classified Instances	30	19.3548 %
Kappa statistic	0.3142	
Mean absolute error	0.2324	
Root mean squared error	0.4217	
Relative absolute error	70.2189 %	
Root relative squared error	104.1582 %	

Comparision

When both settings changed confidence factor :0.5 and num of folds:2 the Correctly classified percentage of instances have increased .

When only num of folds have changed (without changing the confidence factor) there is no change in the output.

But when the the cross validation folds have decreased to 3 and the confidence factor increased ro 0.5 the percentage of correctly classifie instances have decreased.