Name: KOMAL MAHESH CHITNIS
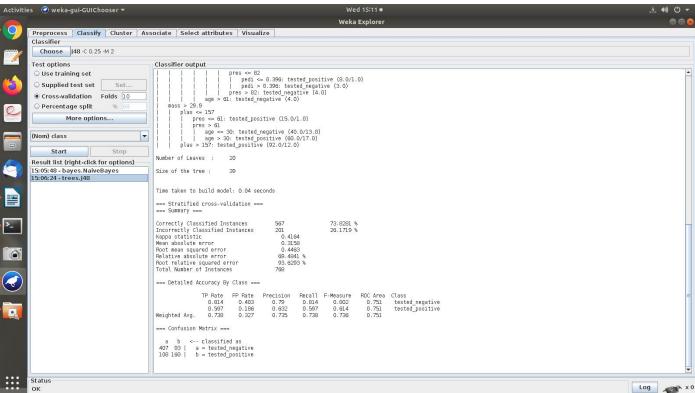
Moodle Id: 20102068
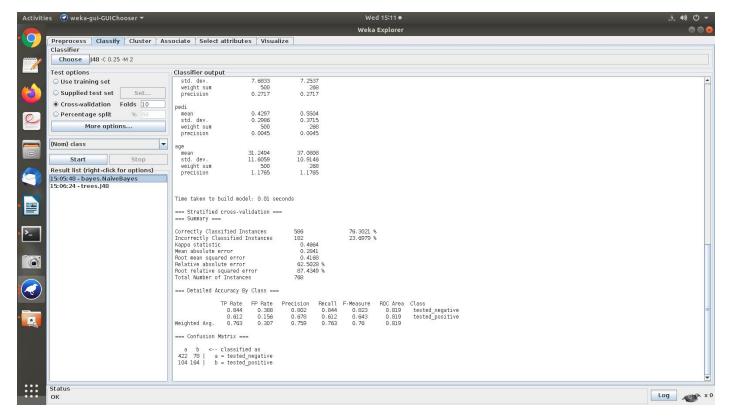
Roll No.: 26

Div: A

<p align="center"><u>**EXPERIMENT NO. 7**</u></p>

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

Classifier

Choose   J48 -C 0.25 -M 2

Test options
- ○ Use training set
- ○ Supplied test set   Set...
- ● Cross-validation   Folds   10
- ○ Percentage split   %   66

More options...

(Nom) class ▾

Start   Stop

Result list (right-click for options)
15:05:48 - bayes.NaiveBayes
15:06:24 - trees.J48

Classifier output

```
           std. dev.           7.6833            7.2537
           weight sum           500               268
           precision          0.2717            0.2717

pedi
           mean               0.4297            0.5504
           std. dev.          0.2986            0.3715
           weight sum           500               268
           precision          0.0045            0.0045

age
           mean              31.2494           37.0808
           std. dev.         11.6059           10.9146
           weight sum           500               268
           precision          1.1765            1.1765


Time taken to build model: 0.01 seconds

=== Stratified cross-validation ===
=== Summary ===

Correctly Classified Instances         586               76.3021 %
Incorrectly Classified Instances       182               23.6979 %
Kappa statistic                          0.4664
Mean absolute error                      0.2841
Root mean squared error                  0.4168
Relative absolute error                 62.5028 %
Root relative squared error             87.4349 %
Total Number of Instances              768

=== Detailed Accuracy By Class ===

               TP Rate  FP Rate  Precision  Recall  F-Measure  ROC Area  Class
                0.844    0.388     0.802     0.844    0.823      0.819    tested_negative
                0.612    0.156     0.678     0.612    0.643      0.819    tested_positive
Weighted Avg.   0.763    0.307     0.759     0.763    0.76       0.819

=== Confusion Matrix ===

   a    b   <-- classified as
 422   78 |   a = tested_negative
 104  164 |   b = tested_positive
```

Status
OK   Log   x 0

PRECISION :- 0.72

RECALL :- 0.844

SPECIFICITY :- 0.611