EX.NO:27

Date:

PREDICTION OF CATEGORICAL DATA USING DECISION TREE ALGORTHM THROUGH WEKA

AIM:

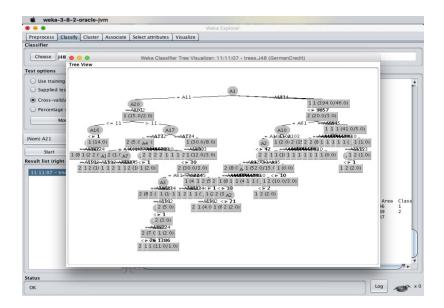
To create prediction of categorical data using decision tree algorithm through weka tool.

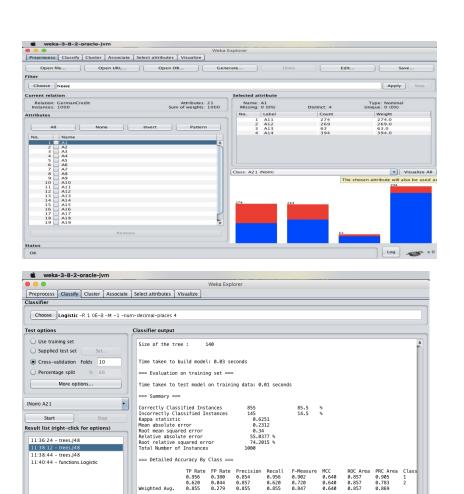
PROCEDURE:

- 1.Download WEKA And Install
- 2.Start WEKA
- 3. Open The Data/iris.arff Dataset
- 4. Select And Run An Algorithm
- **5.Review The Results**

Decision Tree :

Visualize the decision tree for the given dataset.

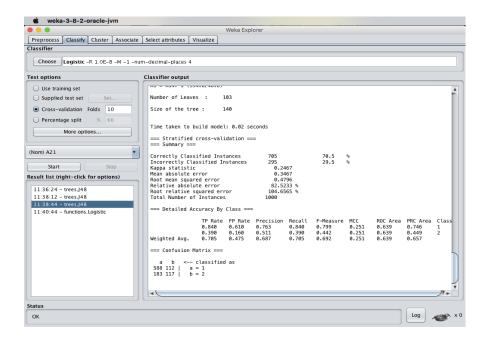




=== Confusion Matrix ===

a b <-- classified as
669 31 | a = 1
114 186 | b = 2

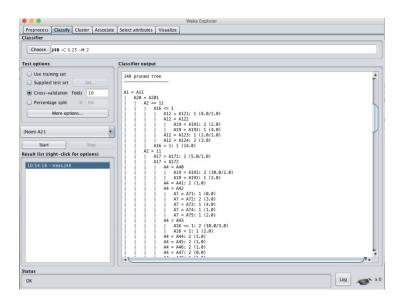
ОК

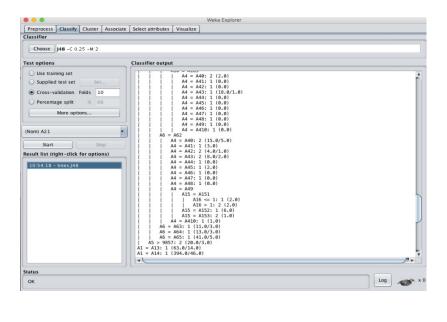


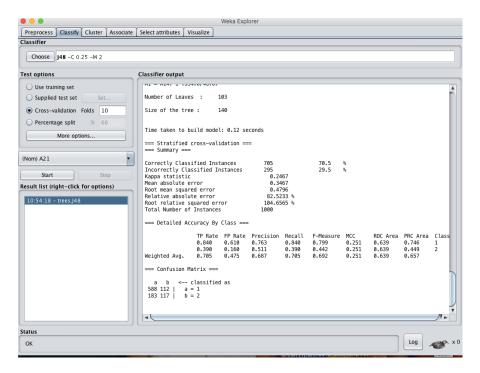
Log x 0

> CROSS VALIDATION ANALYSIS:

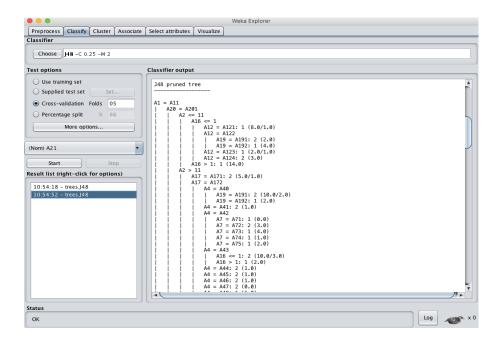
When cross validation folds are 10:

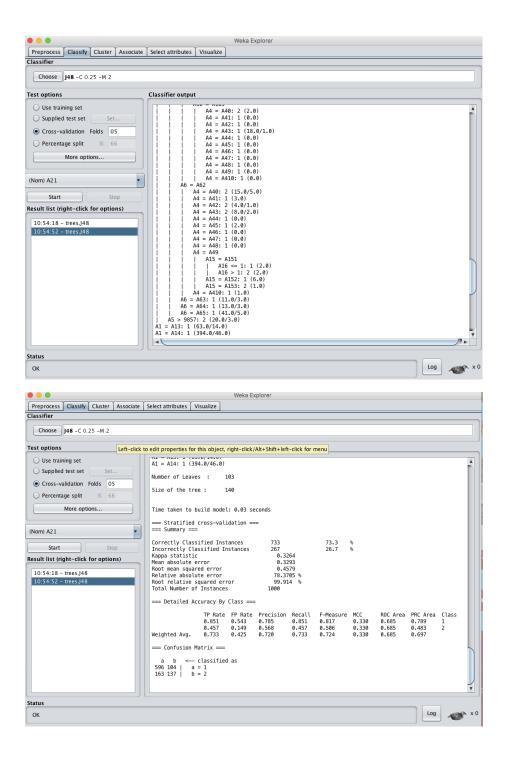






When cross validation folds are: 05:-





RESULT:

Thus, the observations and evaluations done on the german_credit dataset are analyzed. The decision tree has been successfully visualized. Various evaluations and comparisons done through the cross validation folds change. Which lead to the change of values in confusion matrix.