Name: Minahil Mobin

Roll No: 21L-XXXX

Section: BDS-XXX

Data Mining Lab # 04:

Question # 01:

Part # 01 & #02:

a) What is the size of the training set?

Answer: 286

b) How many attributes exist in the training set?

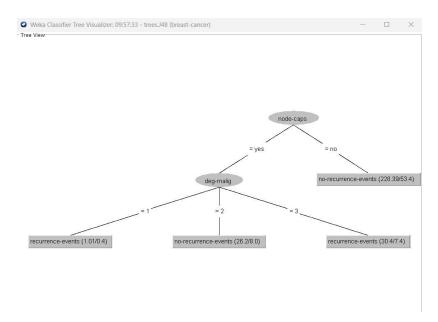
Answer: 10

c) How many instances are positive (node-caps = yes) and how many negative?

Answer: The number of positive instances is 56 and negative is 222.

d) Which attribute best separates the data?

Answer: node-caps is the attribute that best separates the data.

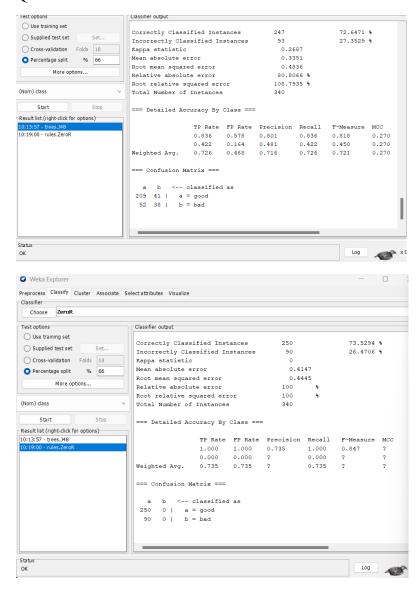


e) How many elements from the data set have the Recurrence as positive?

Answer: 201

Part # 03:

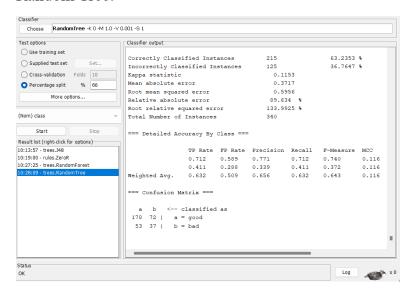
Question:



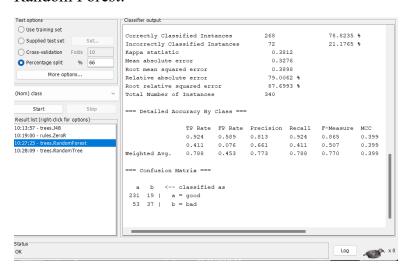
The result with both J48 & ZeroR are good and pretty much the same but the result with ZeroR is slightly better than J4.

Other Classifiers:

Random Tree:



Random Forest:



Random Forest is giving the best results compared to others. In contrast, the Random tree gives worse result compared to others.