Programming Assignment -1:

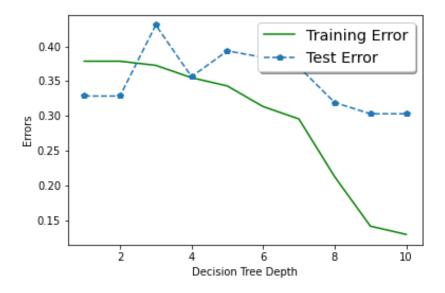
Tarun Punhani - TXP190029

Kiran Devaraj Raj - KXR190038

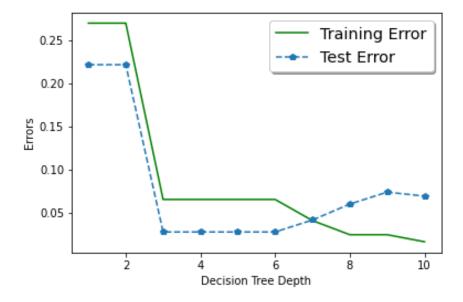
a) Monks-1 Data set graph:



Monks-2 Data set graph:



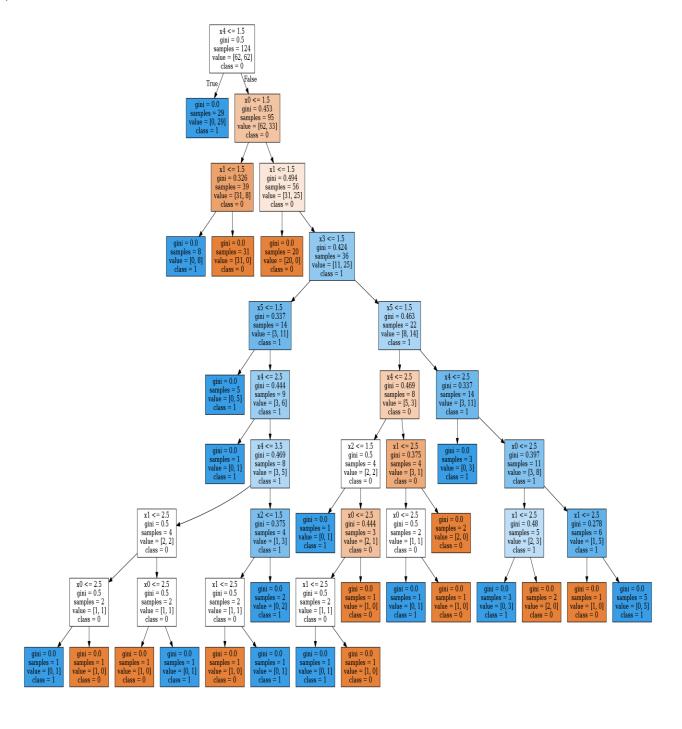
Monks 3 Data set graph:



b) Tree and confusion matrix for depth = 1 in monks-1 data set

Tree and confusion matrix for depth = 2 in monks-1 data set

c) Decision Tree from Scikit:



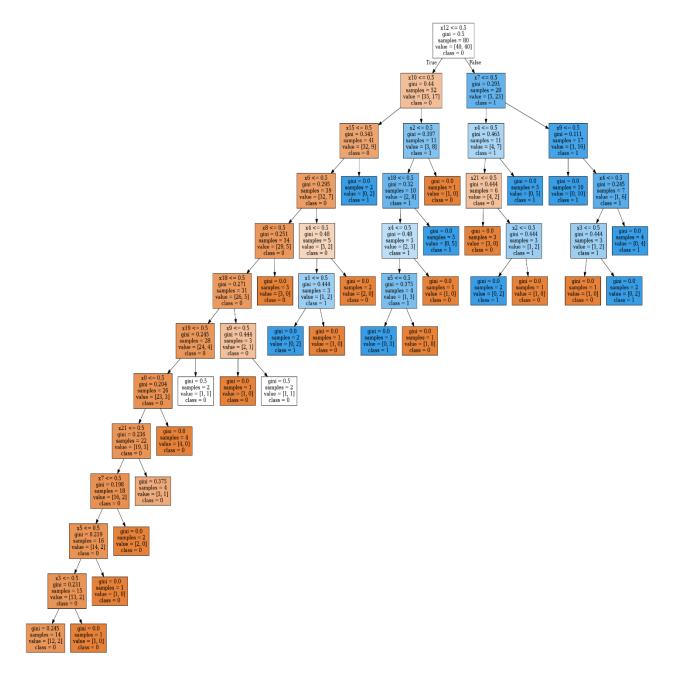
Confusion Matrix:

```
learn_decision_tree_from_scikit()
[[216 0]
[108 108]]
```

d) Tree and confusion matrix for depth=1 for SPECT data set:

Tree and confusion matrix for depth=2 for SPECT data set:

Decision Tree of SPECT data set from Scikit:



Confusion Matrix:

```
learn_decision_tree_from_scikit()
[[ 15     0]
[126     46]]
```