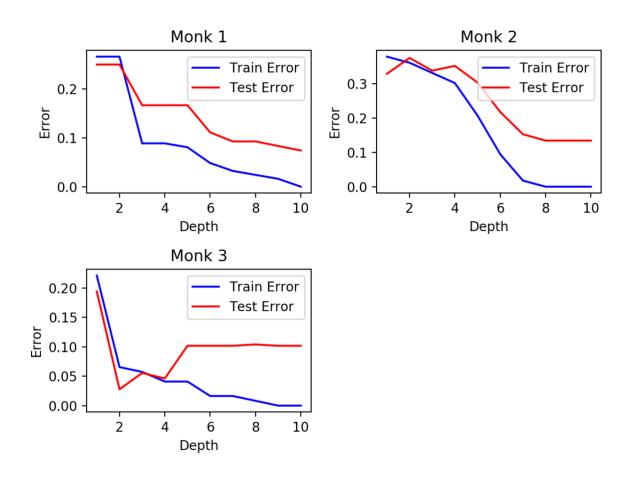
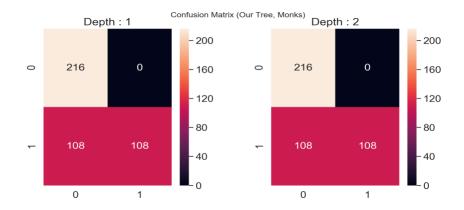
Programming Assignment 1

Submitted by: S K Aravind SXA190006 Paresh Dashore PXD190004

a) Learning Curves

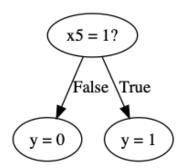


b) Weak Learners (Confusion matrix for Monks-1 dataset, depths=1,2)

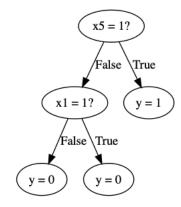


Trees obtained:

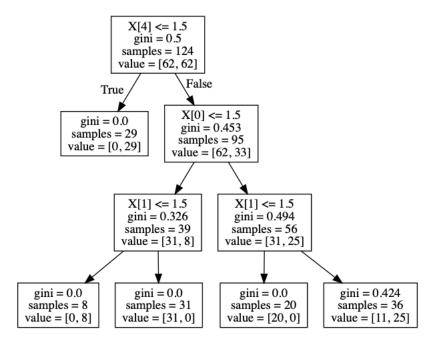
Depth 1:



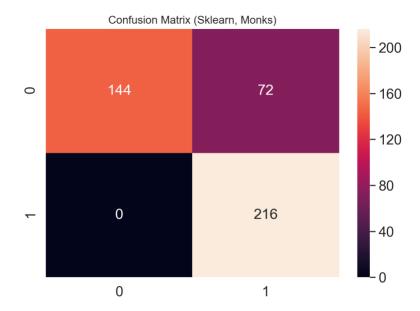
Depth 2:



c) Scikit-Learn Tree and Confusion matrix: (Tree, depth = 3)

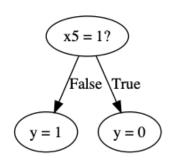


Confusion Matrix:

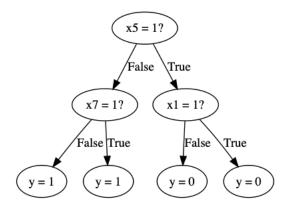


d) Performance on our Dataset (Tic Tac Toe dataset)
No discretization was required for this dataset.

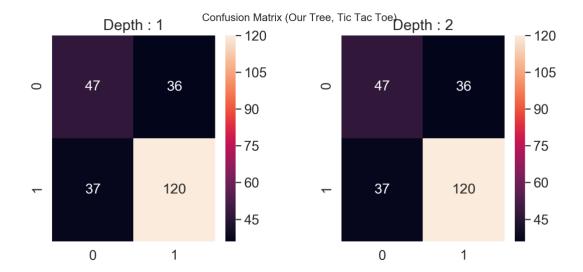
Our Learned Tree Depth = 1



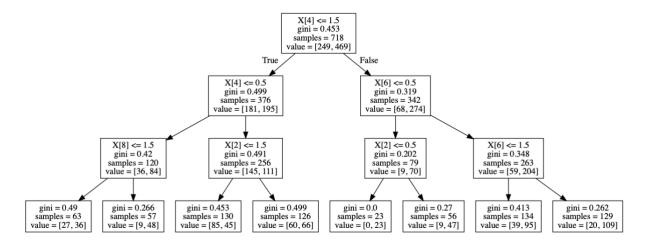
Depth = 2



Confusion Matrix



Scikit Learn's tree (depth = 3)



Confusion matrix

