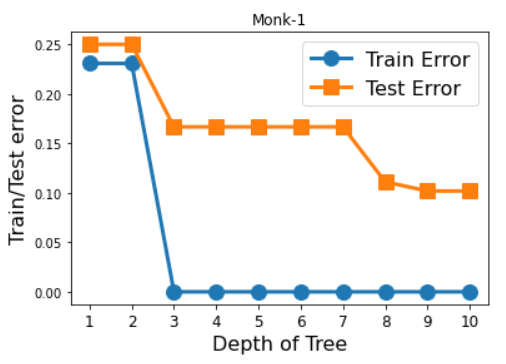
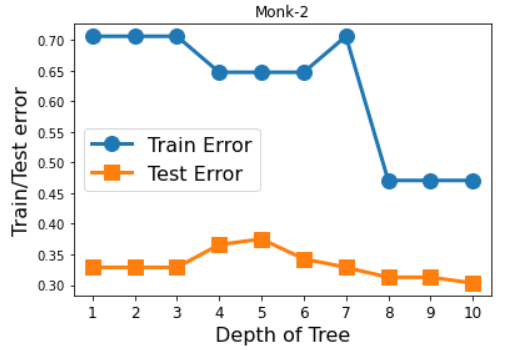
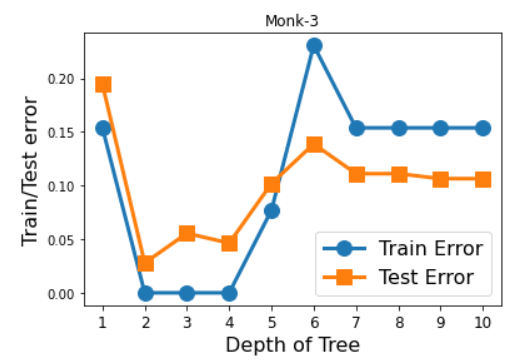
**B) Learning Curve**

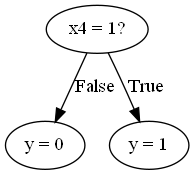
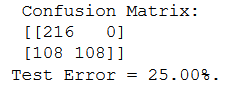




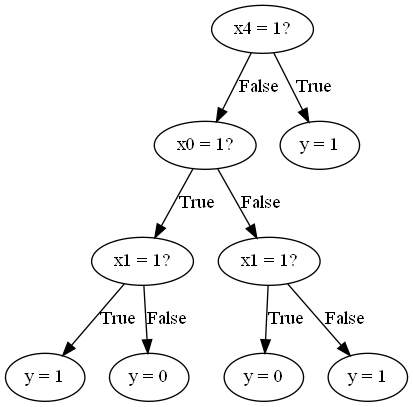
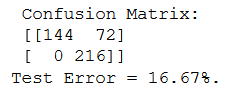


**C) Weak Learner**

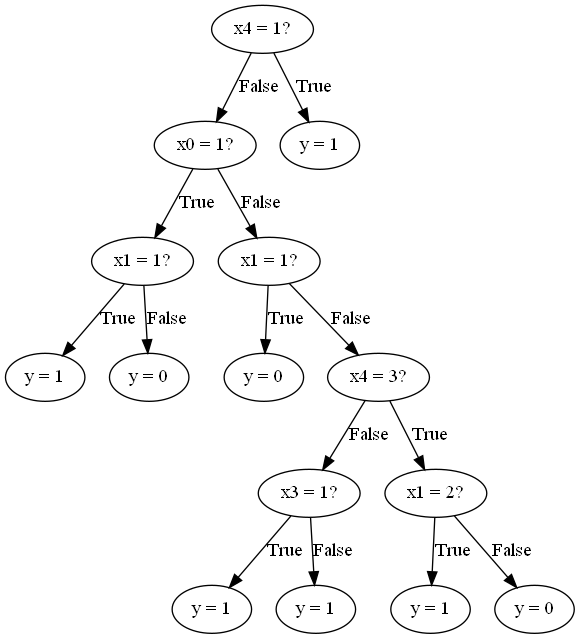
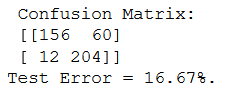
Depth-1

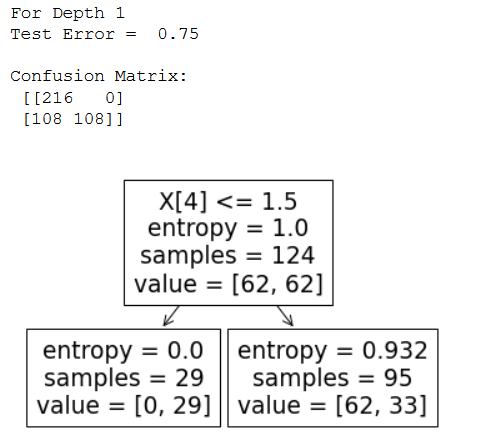
Depth-3

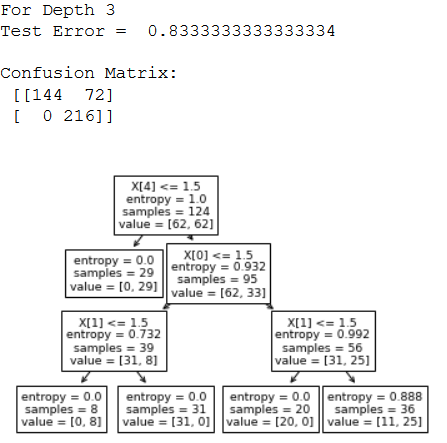
 

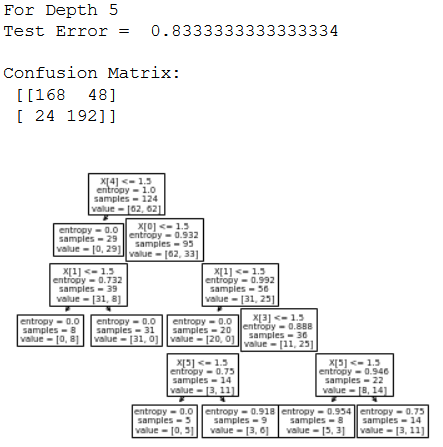
Depth-5

**D) scikit-learn Decision Tree**

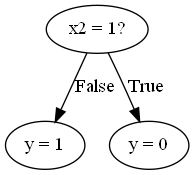
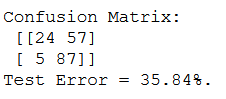




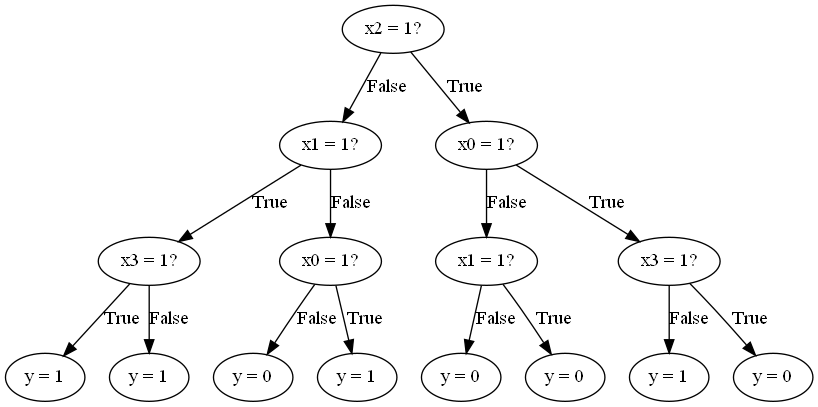
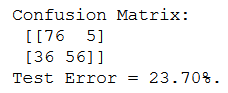


**E) Other Data Sets**

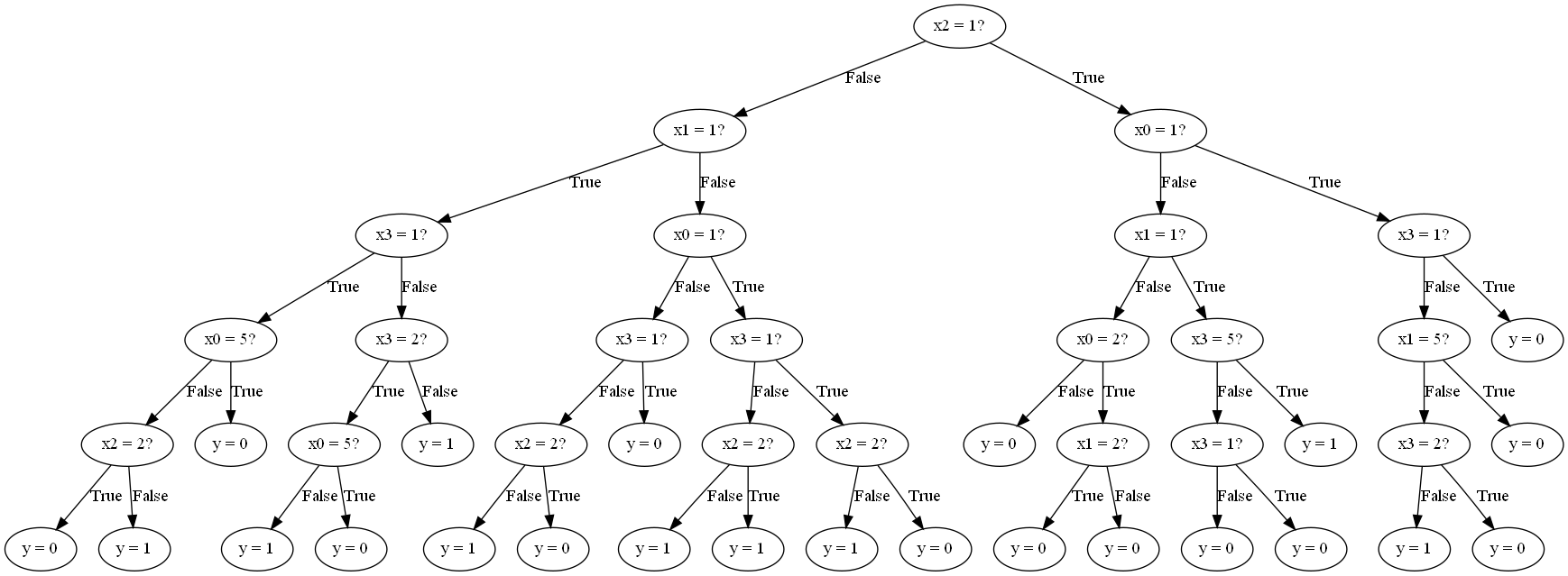
On Own Id3 Depth-1

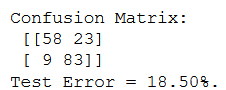
 

On Own Id3 Depth-3

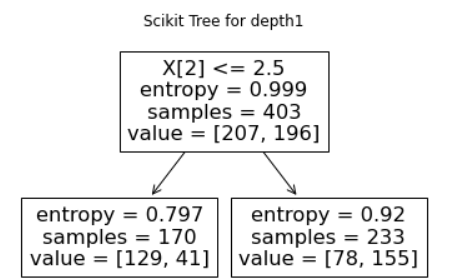
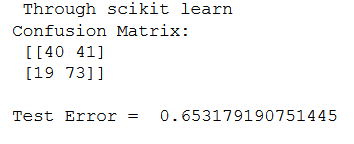
 

On Own Id3 Depth-5

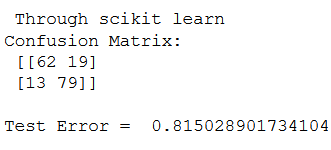
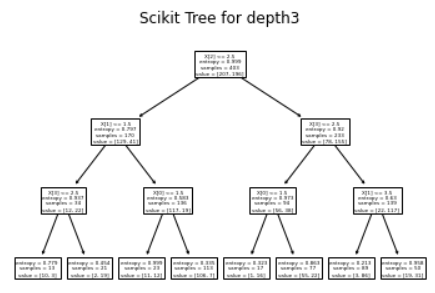




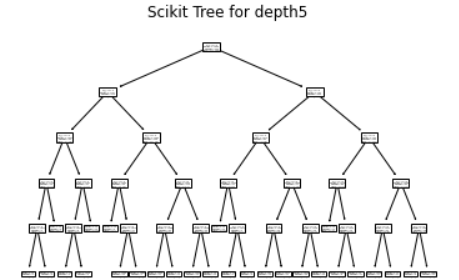
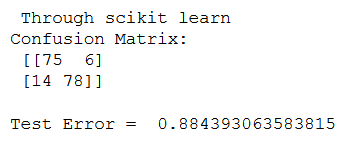
On Own Sklearn Depth-1

On Own Sklearn Depth-3



On Own Sklearn Depth-5

**The scikit learn algorithm improves with more depth in decision tree, as with depth 3 the test error of Our Id3 algorithm and scikit learns is nearly same but with more depth the difference is slighly more than that of depth 3.**