

# Exercise01 PracticalApplication ::: Build DecisionTree By Hand

\_1. Build a DecisionTree using the Iris Data Subset given below :::

Petal length in cm	Petal width in cm	Class
1.4	0.2	Iris-setosa
1.5	0.2	Iris-setosa
1.3	0.2	Iris-setosa
4.7	1.4	Iris-versicolor
4.5	1.5	Iris-versicolor



\_2. Follow Steps for ID3 Algorithm given on Slides 21-31 in DecisionTree\_RandomForest PowerPoint  
Link :

[https://webpages.uncc.edu/aatzache/ITCS6162/PowerPoints/DecisionTree\\_ID3\\_RandomForest\\_Combined.ppt](https://webpages.uncc.edu/aatzache/ITCS6162/PowerPoints/DecisionTree_ID3_RandomForest_Combined.ppt)

\_3. Analyze the Tree to Determine the Class of the following object :  
( Hint : Traverse the Tree from Root to Leaf ) .

Testing object:

petal length in cm	petal width in cm
5.1	1.8