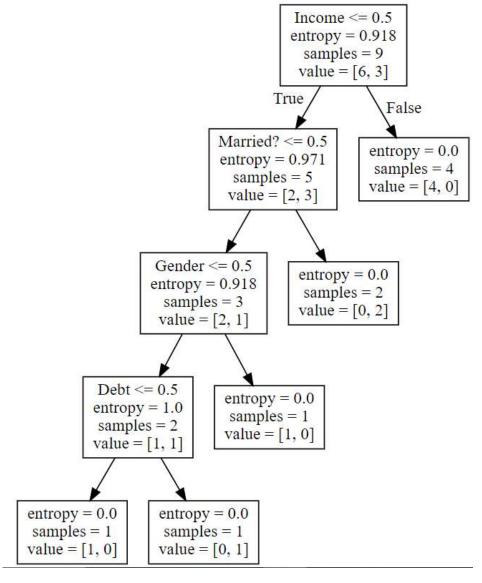
CS539 – Machine Learning HW1- Part2

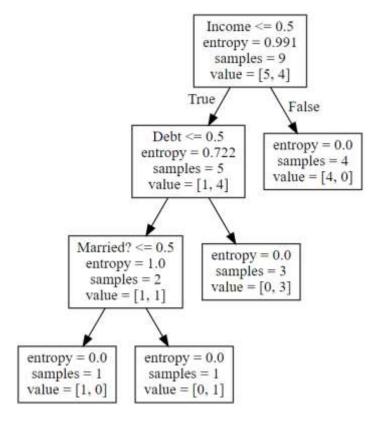
Task 2-1
Decision tree plot:



Applying the decision tree to predict the Credit Risk of Tom and Ana:

Name	Credit Risk
Tom	Low
Ana	Low

Task 2-2
After changing Sofia's Credit Risk from 'Low' to 'High' I obtained the below decision tree



Observations:

If I change the Credit Risk of Sofia from 'Low' to 'High' the variable Gender is not the node of decision tree anymore.

I observed the variable 'Owns_property' does not play any role in predicting the Credit Risk.