1. What does it mean to classify an observation in data mining?

To classify an observation in data mining means to predict the categorical class label for an observation.

1. Do we want higher or lower entropy when creating a decision tree?

We want a lower entropy because that will mean our decision tree is pure and classifies our observations appropriately. High entropy will mean there is a high level of uncertainness in our classification.

1. What are two methods of attribute selection?

Two methods of attribute selection are Gain Ratio and Gini index.

1. Please Write any Question you may have.

I could use some clarification on entropy. I understand that a lower entropy yields a pure decision tree, often times a single classification. While a higher entropy yields a decision with many classes of equal opportunity. Is a lower entropy value truly better?