READ ME

1. We have used Python to implement decision tree using the ID3 algorithms.

2. The code is written as Ipython notebook which can be run in jupyter notebook by navigating to the file.

3. Open the jupyter notebook and click the run cells for all the cells.

4. The user will be asked to provide the following:

    a. path to training dataset

    b. path to testing dataset

    c. path to validation dataset

5. After that, the program will output the results for the decision tree using ID3 Algorithm as well as the ones created using random attribute selection.

*The findRandomAttribute( ) function returns an attribute by using the random function.

*The depthTree( ) function return the sum of depths of all leaf nodes of the random tree that has been created and dividing it by the total number of leaf nodes, gives us the average height.