**Please follow the below instructions to run the file:**

Extract the compressed file ‘Assignment 1’ to a location on the local computer on which python is installed.

[ Note: Python version 3.6 is used for this assignment]

The datasets are also available in the compressed file. Please make sure they are available in the below paths:

**< Assignment 1 extraction path> \ data\_sets1**

**< Assignment 1 extraction path > \ data\_sets2**

Please run the file as follows:

Python ID3.py <L> <K> <training-set> <validation-set> <test-set> <to-print>

L: integer (used in the post-pruning algorithm)

K: integer (used in the post-pruning algorithm)

to-print:{yes,no}

**Example:**

**< Assignment 1 extraction path >** python ID3.py 55 5 data\_sets1\training\_set.csv data\_sets1\validation\_set.csv data\_sets1\test\_set.csv no

C:\Emkae\UTD\Machine Learning\Assignment\Assignment 1>python ID3.py 55 5 data\_sets1\training\_set.csv data\_sets1\validation\_set.csv data\_sets1\test\_set.csv no

Entropy Method:

You have selected 'No' to print tree argument, proceeding to pruning

Accuracy before pruning by Entropy Method: 75.85

Accuracy after pruning by Entropy Method: 76.2

Variance Method:

You have selected 'No' to print tree argument, proceeding to pruning

Accuracy before pruning by Variance Method: 76.64999999999999

Accuracy after pruning by Variance Method: 76.85