Assignment-1 Report:
Regression Tree

Competition 1 - Best Loss value:
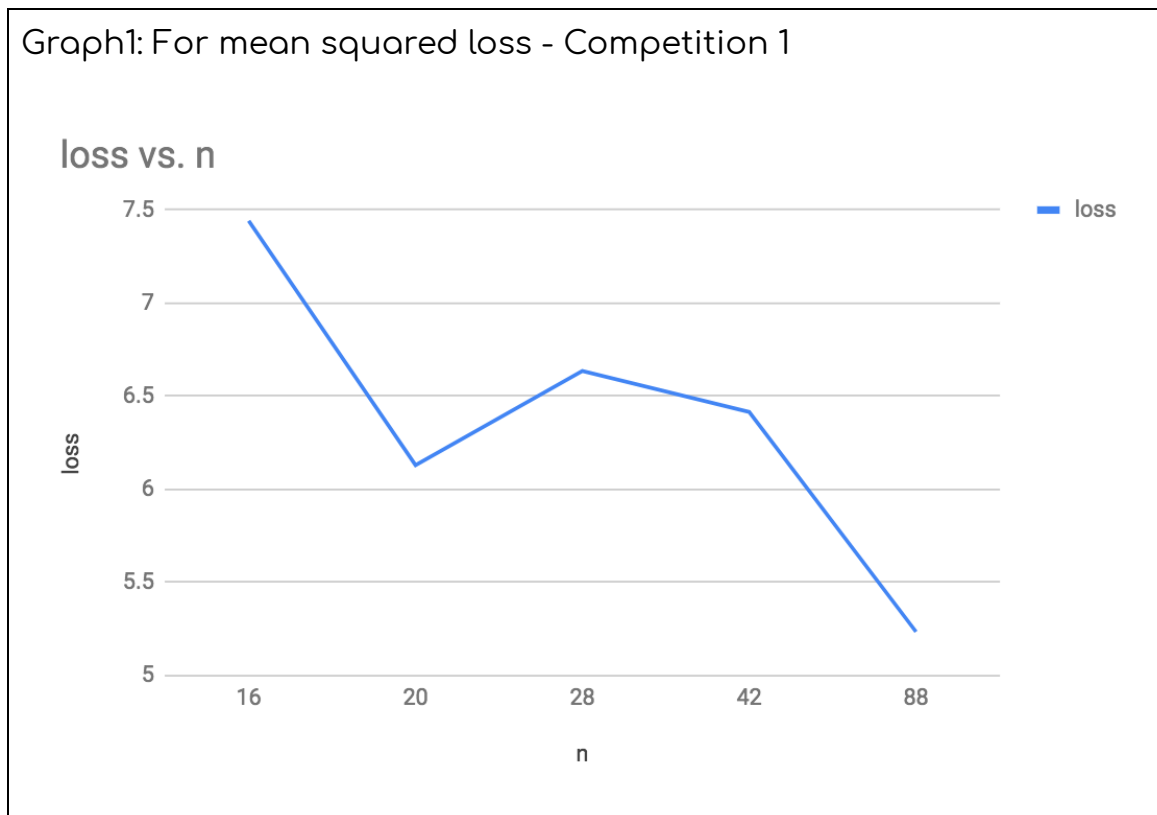
1) Mean Squared Loss: **5.2 - Time is roughly 55.69 seconds**
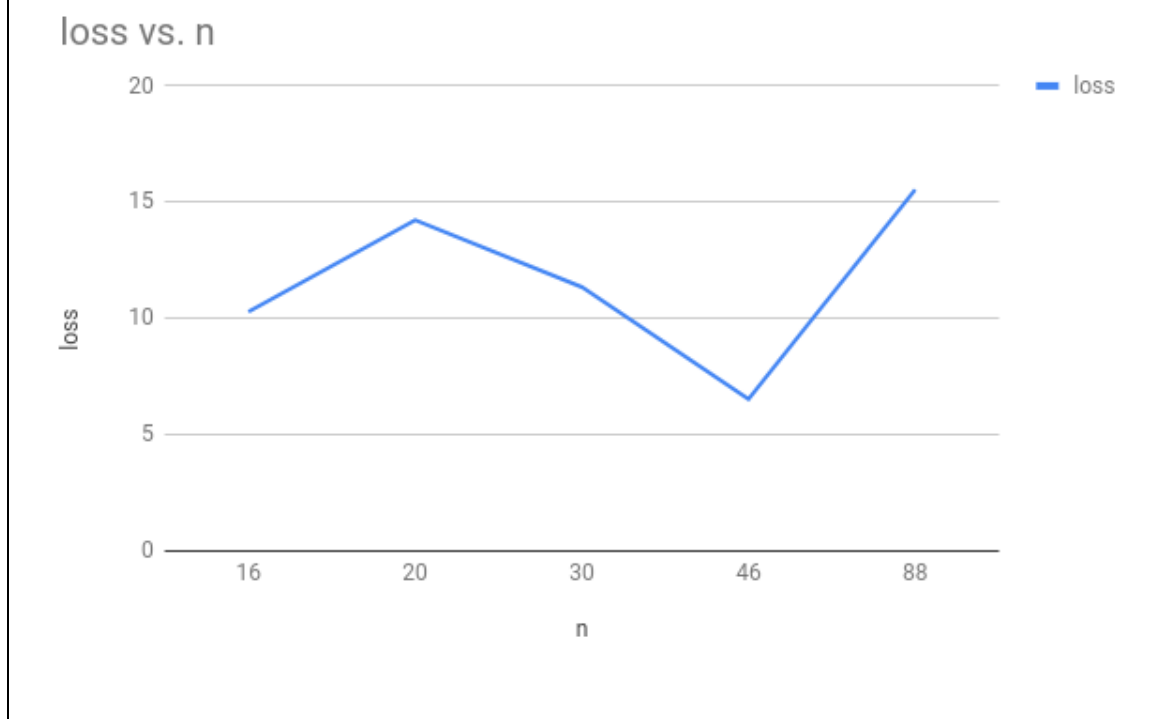2) Absolute Loss: **6.52 - Time is roughly 137.87**

Competition 2 - Best Loss Value:

1) Mean Squared Loss: **1.016 0 - Time is roughly 7minutes 32.45 seconds**

Graphs:

Graph1: For mean squared loss - Competition 1

loss vs. n

Graph2: For absolute squared loss - Competition 1

Implementation:

In this project we used pandas library to store the data. We also used any tree library to construct the tree. This library is useful in visualization of the tree.

We first sorted the dataset on one the attribute then found out the variance or absolute deviation from mean, for each sample points.We found the minimum value in dataset for each attribute. We took the value that is minimum value among all the attribute. then we split the data according to that value.