

## Assignment-2 Bonus (Report)

**Team Members:**     1) Rajan Jhaveri (rjj160330)  
                                 2) Varun Dani (vxd162230)

**Tree Parameters:**

	Average Depth	Number of Nodes
Tree constructed using ID3	8.734242	275
Tree constructed using random attribute selection	10.29980276	1013

$$\text{Average Depth} = \frac{\text{Sum of depth of the leaf nodes}}{\text{Total number of leaf nodes}}$$

**Accuracy:**

Running the random selection algorithm 5 times, we get:

Run #	Accuracy of tree constructed using random attribute selection
1	98
2	97
3	96
4	97
5	99

Accuracy of ID3 tree: 97