Jon Organ

CS677

Homework 10, Random forest

**Question 1:**

Saving scatter plot...

A graph with blue dots

Description automatically generated

Best N value: 7

Best d value: 3

**Question 2:**

Random forest year 2 confusion matrix:

Predicted Green Red

Actual

Green 22 7

Red 1 20

**Question 3:**

Decision tree year 2 true positive rate: 75.86%

Decision tree year 2 true negative rate: 95.24%

**Question 4:**

For year 2 of the Chipotle stock, buy-and-hold ($135.18) was worse than the random forest classifier strategy ($389.4)

For year 2 of the S&P-500 stock, buy-and-hold ($90.61) was worse than the random forest classifier strategy ($192.17)