Lab 3

Part 1:

After producing models up to a complexity of 15, the following graph is obtained showing the relationship between complexity and resulting RMSE. A screenshot of a cell phone

Description automatically generated

It can be seen that as complexity increases, RMSE decreases, indicating that the full size model is the most accurate model in terms of included variables when determining Sale Price of a house. This is based on the diea that regression gets more accurate the more variables that are included due to the diminishing value of the ommitted variable bias.