Arun Sangar

CPSC 375

Project 2

1. I used the same values given in the .R file. (Age, Weight, Height, Abdomen) Running the program multiple times showed that this was likely the most stable around a low standard error of 4.5. Removing age and height sometimes produced a lower root mean squared error however, often it was higher. There was one run of the model only using weight and the abdomen measurement that gave a very low root mean squared error of 3.8. I was a little suspicious, so I went through the data again. I found a few outliers this time. The 2 most notable ones being at indices 172 and 182. These data points have a bodyfat percentage of .7 and 0 respectively. Another interesting one is located at index 39. This data point seems to be an outlier with relatively high values. Removing those entries gave a root mean squared error of 4.3 to 4.4.
2. 4.36
3.