STAT 614 CLASSWORK LINEAR REGRESSION

Using the mtcars data table:

**1**) Generate the scatter plot for horsepower **hp**  vs weight **wt**. Let **hp** = y and let **wt** = x. Use the ggplot (tidyverse) method

**2)** Rate the linear relationship between the variables as weak, moderate, strong, or very strong base on the scatter plot. Use and show R code to confirm your answer.

**3)** Use and show R code that will produce the linear model. Write the linear model and interpret the slope.

**4)** Use the formula and the procedure in the notes to find the residual for the observational weight value of 5.424 Is your observational weight above average or below average.