STAT 412/612 CLASSWORK CHAPTER 8

Instructions: Produce and send a Word file and an Rmarkdown file that shows all Rcode, narrative, and output.

library(**tidyverse**) library(**dplyr**)

1) Use and show R code to import the excel data spreadsheet “Student Data” and then assign the imported excel spreadsheet a variable by showing and using appropriate R code.

All variables reference in the problems 2-6 are from the *Student Data* data table

2) Use and show R code to produce a data table that shows the different counts for the levels of the categorical variable **FavoriteColor**

3) Use and show R code to produce a color featured bar graph that shows the counts for each level of the categorical variable **FavoriteColor**

4) Using the R code *group by* and *summarize* commands produce a table that produces the median **GPA** for each level of the variable **FavoriteColor**

5) Use and show an R coding parsing function that will eliminate the word years from every observation of the variable **YearsofMatriculation.**

6) Using the new data table that you have created from problem 5, show and use R code that will produce the minimum, maximum, Q1, the median, and Q3 for the values of **YearsofMatriculation.**