Practice II

Part I :

Import the mouse data from the file dataset/ mice_data_mod.csv. This file contains the same data as mice_data.csv and in addition, two more columns.

1. Run str() to check your data frame: did it load correctly?

2. Convert genotype and diet to factor variables.

3. Make a scatter plot of respiratory rate against mouse weights using the function plot().

    - use solid circles as plotting symbol
    - add a title
    - customize the axis labels (“Weight [g]”, “Respiratory Rate [bpm]”)
    - color the points by genotype.

4. Fit a trend line using the function abline()

5. Add a legend for the genotype

Part II :

This is a continuation of the previous practice: we will continue to plot the mice data

1. Plot a histogram of mouse weight and customize it with title, labels, colors. Represent the density line on top.
2. Make boxplots of weights from WT and KO mice. Customize with title, labels, colors.
3. Optional: Repeat 2 with diet instead of genotype.

Part III :

This is a continuation of the previous practice

1. Make a multi-panel figure with the four graphics (from the previous exercises) on one page
2. Change the code to export the figure to a pdffile with paper size A4. Set width and height arguments in the call to pdf() to make it look nice.
3. Optional: Export an histogram (from previous exercise) to a png file. Set width and height arguments in the call to png() to make it look nice.