

DASC 5420: Exercise 2— R Basics

Due Date: January 28, 2024

Make an **R Markdown file** and produce a **pdf or html** file by executing the following problems. In the title of your file make sure you include your name and student ID number.

1. Write a paragraph by introducing yourself (two/three sentences are fine), your undergraduate background, and your research interest. **[2 marks]**
2. Use the following book link:

Garrett Grolemund and Hadley Wickham, R for Data Science (2e): Import, Tidy, Transform, Visualize, and Model Data. <https://r4ds.hadley.nz/>

Now, Go to Chapter 1 (Data visualization) and reproduce all the results in your R Markdown file. You need to use all the R code and produce the outputs. Also, make sure you have provided a brief description before or after each chunk of R code so that anyone can understand the output. [You don't need to do the exercises from this chapter. But you are welcome to explore them.](#) **[5 marks]**

3. Load any stock price data (say, Apple or Microsoft or Amazon or any other stock) from April 1, 2022 to December 30, 2023 in R from Yahoo finance. Save the data in a variable name **“mydata”**. Print out the first and last few observations. Plot the stock price data using a time series plot. Make sure you use the proper axis names and title of the plot.

[Hints: look at seminar 2 materials.](#)

[3 marks]

Upload the final pdf/html file in **Exercise 2: Introduction** in Moodle. Make sure you have included all the R codes and outputs in the pdf/html file.