

Assignment Two  
BSDS Spring 2021  
(due 2/5, 11:59pm PST)

Note: You must submit this assignment as a Jupyter Notebook file (.ipynb) on Canvas. Please use markdown cells to indicate which parts of the notebook answer which questions. If a question requires a short answer rather than code, use a markdown cell.

1. Take the markdown tutorial found here: <https://www.markdowntutorial.com> and answer the following prompts.

- Create a markdown cell with any quote you like in a blockquote with the text in italics (don't forget to cite the author of the quote!).
- Create a markdown cell with an image of your favorite food (using a link to an image on the internet) followed by an ordered list of how to make the food. Include at least one sub-list.

Note: This can be as simple or as detailed as you like. The instructions can simply be “go to X restaurant” and “buy the Y food”.

2. Perform the following in the same cell.

- Assign to x to your favorite positive integer and to y your favorite positive float (for example 2.71828).
- Calculate  $x^2$
- Calculate  $\log(xy)$
- Calculate  $\sqrt{y^2x}$

3. Run the following code, but interrupt it before it finishes.

```
for (i in seq(1, 1000000000)){  
  i  
}
```

Now run

```
ls()  
i
```

Why do you think you received the output you see?

4. Run the following code.

```
my_variable <- 1  
my_variable <- 2  
My_variable <- 3
```

What is the value of `my_variable`? There are three possibilities; why is it not either of the other two options?

5. What is another way to call the function `rm`? Hint: run `?rm`.

6. Read the style guide found here <http://adv-r.had.co.nz/Style.html>. According to this guide, which of the following two lines is easier to read?

```
my_variable<-100  
my_variable <- 100
```