

# STAT 218 Lab Assignment 1

Team Member 1: NAME HERE      Team Member 2: NAME HERE  
Team Member 3: NAME HERE

## Lab Assignment 1

In this assignment, we will work with the data available in the package of `palmerpenguins`. Let's install and use that package. And let's load our data into R by using `data()` function.

Run the code chunk below. I will help you download the necessary packages.

**NOTE:** Please ignore `penguins_raw` data for this class and USE `penguins` for this assignment.

**Question 0:** Please add necessary `library()` functions (look at the Slide 10). If you skip this part, your functions will not work.

```
# Delete this sentence and add your R Code here.
```

**Question 1:** Please use `glimpse()` function and write 2-3 sentences to explain what you see.

```
# Delete this sentence and add your R Code here.
```

Type your answer (2-3 sentences) here.

**Question 2:** How many variables and cases do this dataset have? Use necessary functions to find the answer.

```
# Delete this sentence and add your R Code here.
```

Type your answer here.

**Question 3:** What types of variables are there in this data set? Identify each variable below (categorical, categorical - binary, quantitative)

species:

island:

bill\_length\_mm:

bill\_depth\_mm:

body\_mass\_g:

flipper\_length\_mm:

sex:

year:

**Question 4:** Compute the mean, median and standard deviation values for `bill_length_mm`.

*(Hint: You will see NA values when you run the function because of missing data. Use the Console Pane by typing `?mean` to find which argument is helpful for removing NAs.)*

```
# Delete this sentence and add your R Code here.
```

Explain what you see in the output

**Question 5:** Please create a bar chart by using `ggplot()` function for the variable `species`.

```
# Delete this sentence and add your R Code here.
```

Explain what you see in the output.

**DO NOT FORGET TO RENDER YOUR QUARTO DOCUMENT TO PDF!**