Lab 01: Hello R!

Your name

Due September 8, 2022 at 11:59pm

Load Packages

```
library(tidyverse)
library(datasauRus)
```

Exercise 1

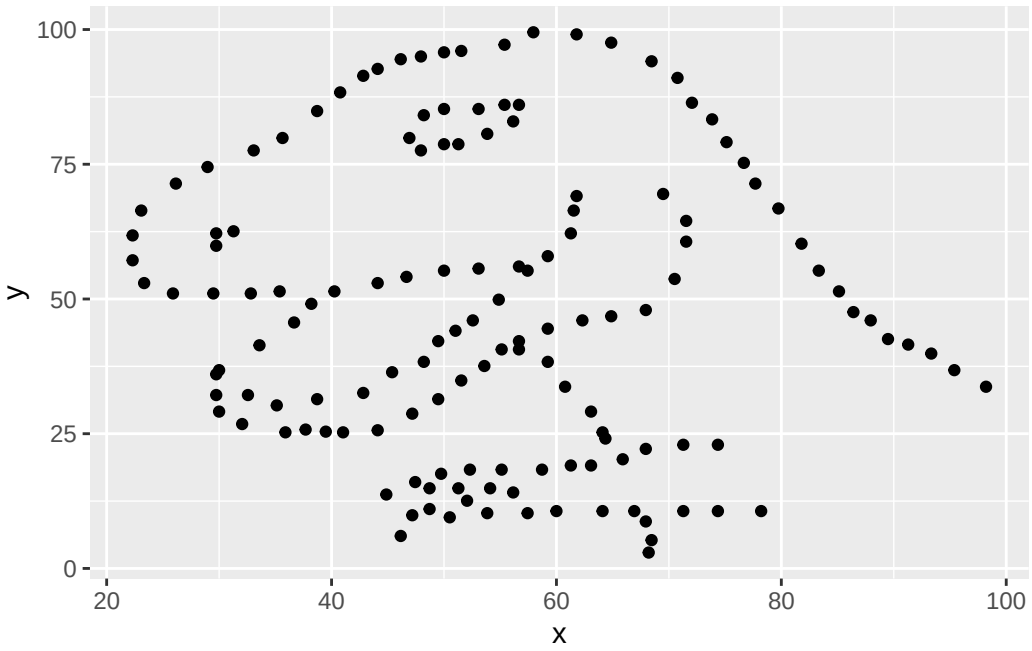
Type your answer to exercise 1 here. Note this exercise does not require any R code.

Exercise 2

The answer for this exercise is given below, but you should clean up the narrative (that's this text here!) so it only includes what you want to turn in.

First, let's plot the data in the dino data set (we will cover `ggplot2` in much more depth later):

```
dino_data <- datasaurus_dozen %>%
  filter(dataset == "dino")
ggplot(data = dino_data, mapping = aes(x = x, y = y)) +
  geom_point()
```



Next calculate the correlation between `x` and `y` in this data set (an explanation for this code is given in the lab document).

```
dino_data %>%
  summarize(r = cor(x, y))
```

```
# A tibble: 1 x 1
        r
    <dbl>
1 -0.0645
```

Exercise 3

Add code and narrative here as needed. When you have finished, clean up the narrative.

```
# Your code should go here! This is a comment, which should be deleted.
```

Some more narrative can go here.

```
# Calculate the correlation here
```

Conclude with some more narrative, if needed.

Exercise 4

Add a code chunk and narrative here. Insert code chunks using the "insert chunk" button (a green C with a +) and select `R`. Alternatively, use CMD + OPTION + I (Mac) or CTRL + ALT + I (Windows/Linux). Delete this narrative when you are done.

Exercise 5

You can run the code in the console, or create a new code chunk. Delete this narrative when you are done.

Exercise 6

Use the space provided below to label each. Delete this narrative when you are done.

- `summarize`:
- `dino_data`:
- `mean`:
- `x`:
- `y`:
- `mu_x = mean(x)`:

Exercise 7

Add a code chunk and narrative here. Insert code chunks using the "insert chunk" button (a green C with a +) and select `R`. Alternatively, use CMD + OPTION + I (Mac) or CTRL + ALT + I (Windows/Linux). Delete this narrative when you are done.