Homework 9 - First App

For this homework you will create an R Shiny App (two file approach please) and upload both the ui and server file to wolfware.

The purpose of this homework is to create a basic R Shiny app.

Our goal will be able to create the app you see in the pictures on the homework link (and can usually be seen here). This app uses the `GermanCredit` data that comes with the `caret` package.

To do:

- Create a folder called 'FirstApp'
  - Here is a start for your ui.R file:

```
library(caret)
data("GermanCredit")
library(shiny)
library(DT)
shinyUI(fluidPage(
  titlePanel(),
  sidebarLayout(
    sidebarPanel(

    ),
    mainPanel(

    )
  )
))
```

- Here is a start for your server.R file:

```
library(shiny)
library(caret)
library(tidyverse)
library(DT)
data("GermanCredit")
shinyServer(function(input, output) {

})
```

Game plan for creating the server file:

- Consider what we need R to do and write that code in a static manner.
  - Hint: For the numeric summaries part I used the following code:

```
var <- input$var
GermanCreditSub <- GermanCredit[, c("Class", "InstallmentRatePercentage", var),
drop = FALSE]
```

```
tab <- aggregate(GermanCreditSub[[var]] ~ Class + InstallmentRatePercentage,
data = GermanCreditSub, FUN = mean)
```

  - Hint: For the plot, I just used simple if/then/else logic along with what we did in `ggplot2`

- I don't really care whether you get the right `h3` vs `h4`. As long as you have the link and the bold text (sample mean is bold) along with some headers on the text you'll be fine!