```
> # Assignment: ASSIGNMENT 5
> # Name: Sharma, Dipika
> # Date: 2021-05-02
>
> getwd()
[1] "/Users/dipikasharma/R_Projects/DSC520"
> ## Set the working directory to the root of your DSC 520 directory
> setwd("/Users/dipikasharma/R_Projects/DSC520")
>
> ## Load the `data/r4ds/heights.csv` to
> heights_df <- read.csv("data/r4ds/heights.csv")
>
> ## Using `cor()` compute correclation coefficients for
> ## height vs. earn
> cor(heights_df$height, heights_df$earn, method="pearson")
[1] 0.2418481
> ### age vs. earn
> cor(heights_df$age, heights_df$earn, method="pearson")
[1] 0.08100297
> ### ed vs. earn
> cor(heights_df$ed, heights_df$earn, method="pearson")
[1] 0.3399765
>
> ## Spurious correlation
> ## The following is data on US spending on science, space, and technology in millions of
today's dollars
> ## and Suicides by hanging strangulation and suffocation for the years 1999 to 2009
> ## Compute the correlation between these variables
> tech_spending <- c(18079, 18594, 19753, 20734, 20831, 23029, 23597, 23584, 25525, 27731,
29449)
> suicides <- c(5427, 5688, 6198, 6462, 6635, 7336, 7248, 7491, 8161, 8578, 9000)
> cor(tech_spending, suicides, method="pearson")
[1] 0.9920817
```