assignment\_05\_KaakatyRoni.R

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# Assignment: ASSIGNMENT 5  
# Name: Kaakaty, Roni  
# Date: 2020-06-27  
  
## Set the working directory to the root of your DSC 520 directory  
setwd("/Users/Roni Kaakaty/Documents/Github/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)

## [1] 0.2418481

### age vs. earn  
cor(heights\_df$age, heights\_df$earn)

## [1] 0.08100297

### ed vs. earn  
cor(heights\_df$ed, heights\_df$earn)

## [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)

## [1] 0.9920817