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# Assignment: ASSIGNMENT 5
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# Date: 2022-07-19

## Set the working directory to the root of your DSC 520 directory
setwd("/home/jdoe/Workspaces/dsc520")

## Load the `data/r4ds/heights.csv` to
heights_df <- read.csv("data/r4ds/heights.csv")
heights_df

## Using `cor()` compute correclation coefficients for
## height vs. earn
cor(heights_df$height, heights_df$earn, use = "complete.obs", method =
"pearson")
### age vs. earn
cor(heights_df$age, heights_df$earn)
### ed vs. earn
cor(heights_df$ed, heights_df$earn)

## 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)
suicide_spending_df <- data.frame(tech_spending, suicides)
#suicide_spending_df
cor(suicide_spending_df)
#summary(suicide_spending_df)
#library(pastecs)
#stat.desc(suicide_spending_df, norm = TRUE)

```