```
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title: "ASSIGNMENT 5"
author: "Saurabh Shrestha"
date: '2021-05-24'
output:
  word_document: default
  html_document: default
  pdf_document: default
bibliography: C:/Users/Saurabh/Desktop/DSC 520/Week2/dsc520
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## Set the working directory to the root of your DSC 520 directory
setwd("C:/Users/Saurabh/Desktop/DSC 520")

## Load the `data/r4ds/heights.csv` to
heights_df <- read.csv("C:/Users/Saurabh/Desktop/DSC
520/Week2/dsc520/data/r4ds/heights.csv")

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

## 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)
```