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title: "Stat123 lab3"
author: "Koki Itagaki"
date: "2023-01-31"
output: html_document
#1. Download the data set inflation_consumer.csv posted under Lab Content in Brightspace
(under Lab 3) and save it to whatever directory you are using for this course.
#(a) Read the inflation_consumer file into R and call it Inflation.df.
Inflation.df<-read.csv("/Users/itagakikouki/stat123/inflation_consumer.csv")</pre>
#(b) How many observations (rows) are in this dataset? How many variables (columns)?
  #nrow(Inflation.df)
  #ncol(Inflation.df)
  dim(Inflation.df)
#(c) What are the mean values for the Year column?
  head(Inflation.df, 100)
  mean(Inflation.df$Year)
#(d) Determine which country has the lowest Inflation and print out their name.
  minIn<-min(Inflation.df$Inflation)</pre>
 min country<-Inflation.df[Inflation.df$Inflation == minIn, "Country"]</pre>
 min country
#(e) Determine which country has the highest Inflation and print out the year.
 max in<-max(Inflation.df$Inflation)</pre>
 max country<-Inflation.df[Inflation.df$Inflation == max in, "Year"]</pre>
 max country
#2. Create a new dataframe that contains all countries with inflation over 7.00 and save
it to Sub Inflation.
```{r}
Sub Inflation<-Inflation.df(Inflation.df$Inflation > 7.00,)
#(a) Determine the average of the inflation column and save this to a variable called
avg.inflation.
avg.inflation<-mean(Sub Inflation$Inflation)</pre>
avg.inflation
#(b) Determine the number of countries with Inflation over that 15.00, using
Sub Inflation, and print out the value.
Sub_Inflation["Inflation"][Sub_Inflation["Inflation"] > 15.00] <- "High Inflation"
length(Sub Inflation["Inflation"] == "High Inflation")
#(c) Create a vector named Inflation Status which contains two levels: High Inflation and
Low Inflation.All countries in Sub Inflation with inflation over than 15.00 should be
labeled as High_Inflation, otherwise named as low_Inflation.
Sub_Inflation["Inflation"][Sub_Inflation["Inflation"] != "High_Inflation"] <-
"low Inflation"
Inflation Status<-as.vector(Sub Inflation["Inflation"])</pre>
Inflation Status
```