## JJiang\_HW3

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## Question 1: Clone a repo from GITHUB

Screening shot showing how to clone a repo from GITHUB

```
Question 2
df <- read.csv("titanic.csv")</pre>
sum(df$Sex=="male")
## [1] 577
sum(df$Sex=="female")
## [1] 314
plot(df$Sex, main = "Frequency of male and female passenges of Titanic", xlab = "Passenges", ylab = "Fr
apply(df[c("Survived", "Age", "Fare")], 2, mean, na.rm = TRUE)
##
    Survived
                     Age
## 0.3838384 29.6991176 32.2042080
Question 3
#Load the sleep data file into R
df <- read.csv("http://talklab.psy.gla.ac.uk/L1_labs/lab_1/homework/sleep_data_01.csv")
func <- function(x){</pre>
  medianAge = median(x$Age, na.rm = TRUE)
  minSleep = min(x$Duration, na.rm = TRUE)
 maxSleep = max(x$Duration, na.rm = TRUE)
  meanRSES = mean(x$RSES, na.rm = TRUE)
  sdRSES = sd(x$RSES, na.rm = TRUE)
 report <- data.frame(medianAge, meanRSES/5, sdRSES/5, maxSleep-minSleep)
  colnames(x) <- c("MedianAge", "SelfEsteem", "SE_SD", "DurationRange")</pre>
  round(report, 2)
}
```

```
## medianAge meanRSES.5 sdRSES.5 maxSleep...minSleep
## 1 14 3.62 1.24 7
```

## Question 4

func(df)

#Run the function

```
# install fivethirtyeight package and load the library
#install.packages("fivethirtyeight")
```

Figure 1: Fig. 1 ScreenShot showing how to create a new dir and navigate into the right dir and clone a repo from GITHUB

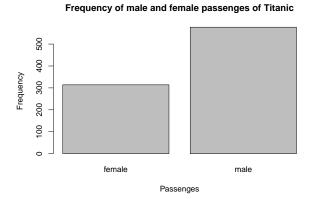


Figure 2: Fig. 2 Plot showing the frequency of male and feamle passengers on Titanic.

```
#library("fivethirtyeight")
# get title of the 22nd datasets in the library and assign the dataset to df
#data(package = 'fivethirtyeight')$results[22, 'Item']
\#df \leftarrow college\_recent\_grads
# get the URL from a more detailed list of datasets for a link to a related news story
#vignette("fivethirtyeight", package = "fivethirtyeight")
# The URL for the related news story: http://fivethirtyeight.com/features/the-economic-guide-to-picking
dim(df)
## [1] 101 15
colnames(df)
## [1] "SubjID"
                                          "PSQI"
                   "Age"
                               "Gender"
                                                      "PSAScog"
                                                                 "FOMO"
## [7] "SMUISa"
                   "SM1"
                               "SM2"
                                          "HADSa"
                                                      "HADSd"
                                                                 "RSES"
## [13] "Bedtime"
                   "Latency"
                               "Duration"
Question 5
# Column names and the number of columns
colnames(df)
## [1] "SubjID"
                   "Age"
                                          "PSQI"
                                                                 "FOMO"
                               "Gender"
                                                      "PSAScog"
                               "SM2"
## [7] "SMUISa"
                   "SM1"
                                                      "HADSd"
                                                                 "RSES"
                                          "HADSa"
## [13] "Bedtime" "Latency"
                               "Duration"
length(colnames(df))
## [1] 15
#load the dplyr and use the function count()
#library(dplyr)
#major_count <- count(df, df$major_category)</pre>
```