SEATWORK 2

(Midterm)

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COURSE/SECTION:

Instructions:

Insert all the screenshots in each of the questions. Create a "Midterm" repo. Update your "Midterm" repo with a commit details of "SW Mditerm - <FULLNAME> <DATE>". Submit your GITHUB Account Name together with the screenshot of our successful GIT PUSH thru email (alvinsarragaalon@hotmail.com) with a subject format of "CPE 406 SW Midterm - <FULLNAME> <DATE>"

Task 1 using Function

Extract the subset of rows of the data frame where Ozone values are above 25 and Temp values are above 70. What is the mean of Wind in this subset?

Task 2 using Function

What is the mean of "Temp" when "Month" is equal to 9 and "Day" is equal to 8?

```
> MeanFunction <- function(data,Month,Day){
+    y <- 0
+    for (row in 1:nrow(data)) {
+       y[row]<- ifelse(data[row,5]==Month & data[row,6]==Day,data[row,4],NA)
+    }
+    mean(y,na.rm = TRUE)
+ }
> MeanFunction(data,9,8)
[1] 78
```

Task 3 using Function

What was the minimum ozone value in each of the month (i.e. Month = 5)??

```
> MinFunction <- function(data, Month) {
   y <- 0
    for (row in 1:nrow(data)) {
      y[row]<- ifelse(data[row,5]==Month,data[row,1],NA)
   min(y,na.rm = TRUE)
+ }
> MinFunction(data,5)
[1] 1
> MinFunction(data,6)
[1] 12
> MinFunction(data,7)
[1] 7
> MinFunction(data, 8)
[1] 9
> MinFunction(data,9)
[1] 7
```