STA206 Fall 2022: dummy quiz

**Instruction**:

* In this question, you will be asked to perform some simple tasks in R

In *dummy.Rdata* you will find a data set called *data* with two variables, *V1, V2*.

* **(a). Please first load the data into the R workspace.**

#(a). (Type your code in the space below)  
load("dummy.Rdata")  
dummy <- data  
head(dummy, 10)

## V1 V2  
## 1 106 43  
## 2 106 41  
## 3 97 47  
## 4 113 46  
## 5 96 45  
## 6 119 41  
## 7 92 47  
## 8 112 41  
## 9 92 48  
## 10 102 48

* **(b). Obtain mean and variance of these two variables.**

# (b). (Type your code in the space below)  
  
#Mean Vector  
colMeans(dummy)

## V1 V2   
## 84.96667 59.98333

# Variance - Covariance Matrix  
var(dummy)

## V1 V2  
## V1 262.7446 -165.6107  
## V2 -165.6107 139.1692