

EPP 8273 Empirical Research in Theory and Practice

R Activity 0.5

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1. Question 1

```
my_vector <- c(1:10)
```

2. Question 2

```
my_vector_ln <- log(my_vector)
```

3. Question 3

```
my_vector_new <- my_vector_ln + 2
```

4. Question 4

```
my_df <- data.frame(variable1 = my_vector, variable2 = my_vector_new)
```

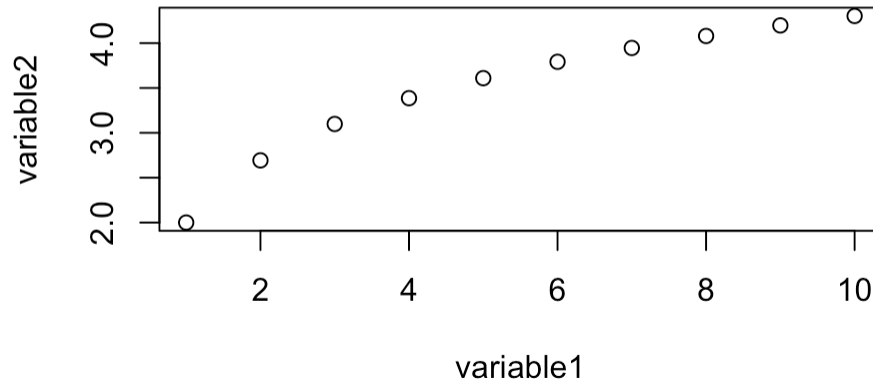
5. Question 5

```
summary(my_df)
```

```
##      variable1      variable2
## Min.   : 1.00   Min.   :2.000
## 1st Qu.: 3.25   1st Qu.:3.171
## Median : 5.50   Median :3.701
## Mean   : 5.50   Mean   :3.510
## 3rd Qu.: 7.75   3rd Qu.:4.046
## Max.   :10.00   Max.   :4.303
```

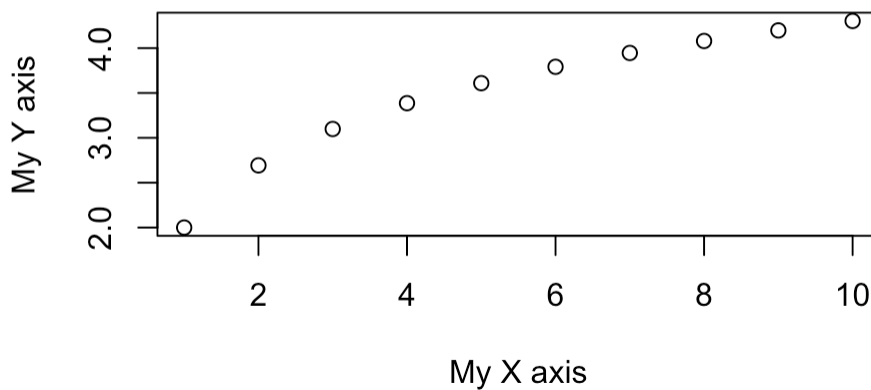
6. Question 6

```
plot(variable2~variable1, data=my_df)
```



7. Question 7

```
plot(variable2~variable1, data=my_df,  
      xlab = "My X axis",  
      ylab = "My Y axis")
```



8. Question 8

```
sd(my_df$variable1)
```

```
## [1] 3.02765
```