Chap1

First, set working directory. 'data' is a 2x20 table and should be numeric

```
##    Length Meanings
## 1       3        8
## 2       6        4
## 3       2       10
## 4       6        1
## 5       2       11
## 6       9        1
## 7       6        4
## 8       5        3
## 9       9        1
## 10      4        6
## 11      7        2
## 12     11        1
## 13      5        9
## 14      4        3
## 15      3        4
## 16      9        1
## 17     10        3
## 18      5        3
## 19      4        3
## 20     10        2
```

Calculate the mean and standard deviation for all columns

```
##   Length Meanings
## 1      6        4
```

```
##     Length Meanings
## 1 2.809757  3.14559
```

We now perform a correlation and a test on the data which gives confidence intervals, regression analysis on the data, an ANOVA on the data

We now print the data and all the results

```
##
##  Pearson's product-moment correlation
##
## data:  Length and Meaning
## t = -4.5644, df = 18, p-value = 0.0002403
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.8873588 -0.4289759
## sample estimates:
##        cor
## -0.7324543
```

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	8.6170213	0.7223990	11.928340	0.0000000
Meaning	-0.6542553	0.1433377	-4.564434	0.0002403

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Meaning	1	80.4734	80.473404	20.83406	0.0002403
Residuals	18	69.5266	3.862589	NA	NA