```
%============================
# Read file #
data<- read.csv("data1.csv")
data
summary(data)
x=data$X
x
y=data$Y
y
mean(x)
hist(y)
plot(x, y)
boxplot(x)
boxplot(x,y)
```

```r
# T test#
x=c(2,3,1,4,6,7)
y=c(5, 2, 6, 8)
x
y
t.test(x, alternative="two.sided", mu=4, conf.level=0.95)
t.test(x, alternative="less", mu=4, conf.level=0.95)
t.test(x, alternative="greater", mu=4, conf.level=0.95)
t.test(x, y, alternative="two.sided", mu=4, conf.level=0.95)
t.test(x, y, alternative="two.sided", mu=4, var.equal=TRUE,conf.level=0.95)
t.test(x, y, alternative="two.sided", mu=4, paired=TRUE,conf.level=0.95)
```

```
# Matrices#
A=matrix(c(1,2,3,4,5,6),3,2)
A
B=matrix(c(11,12,13,14,15,16),3,2)
B
A+B
C=-1*B
C
A+C

D=A/2
D
x=matrix(c(1,2,3,4),2,2)
x
y=t(x)
y
z=solve(x)
z
w=x%*%z
w
```