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#MY FIRST R SCRIPT - BY FADY YOUSSEF AND
```

```
#Using R as a calculator
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```
4+7+3 # 14
5*8*3 # 120
(6^5) # 7776
sqrt(390) # 19.74842
```

```
#after continuing to run, the thing object becomes defined with the given value
# then it is called when typed "thing" giving us back the value
# then thing +2 updates the value to 122
thing <-5*8*3 # 120
thing
thing + 2
```

```
My.name <- "Fady"
My.name
```

```
All.names <- c("Bob", "Ryan", "Sarah", "Maria")
All.names
```

```
Miles.per.day <- c(3,0,4.5,0,3,3,0)
Miles.per.day
```

```
x= seq(1,15)
y=c(-2,1,0,0,1)
2*x+y # 0 5 6 8 11 10 15 16 18 21 20 25 26 28 31
2*(x+y) # -2 6 6 8 12 8 16 16 18 22 18 26 26 28 32
```

```
ages <- c(40,19,12,35,18,25,31,55,70,70,21,20)
sort(ages) #
mean(ages) #
median(ages) #
quantile(ages) #
```

```
fivenum(ages) #this puts the value of the
```

```
x= sample(1:100, size=20)min, max, and functions above into
y=sample(1:100, size=20)
x
y
```

```

stem(x)
stem(x,scale=2)
hist(x)
hist(x,breaks=10)
hist(x,breaks=10, freq=F, lines(density(x)))
boxplot(x)
boxplot(x,y)

```

#Using mtcars data set

mtcars

```

nrow(mtcars)
ncol(mtcars)
mtcars$mpg
mean(mtcars$mpg) #mpg columns from dataset
median(mtcars$mpg)
min(mtcars$mpg)

```

min(mpg) #no dataset or associated object

mean(mpg)



