R Notebook

Calculate the mean of the death of the rural female fromVADeaths data set in R

```
va <- as.data.frame(VADeaths)
head(va)
```

50-54
55-59
60-64
65-69
70-74

5 rows | 1-1 of 5 columns

```
names(va)
```

```
## [1] "Rural Male"   "Rural Female" "Urban Male"   "Urban Female"
```

```
va_mean <- mean(va$`Rural Female`)
print(paste("The mean for rural female is: ",  va_mean ))
```

```
## [1] "The mean for rural female is:  25.18"
```

Apply the lapply(), sapply() and tapply() functions from mtcars data set in R

```
mt_data <- mtcars
head(mtcars)
```

Mazda RX4
Mazda RX4 Wag
Datsun 710
Hornet 4 Drive
Hornet Sportabout
Valiant

6 rows | 1-1 of 12 columns

```
lapply(mt_data,sum)
```

```
## $mpg
## [1] 642.9
##
## $cyl
## [1] 198
##
## $disp
## [1] 7383.1
##
## $hp
## [1] 4694
##
## $drat
## [1] 115.09
##
## $wt
## [1] 102.952
##
## $qsec
## [1] 571.16
##
## $vs
## [1] 14
##
## $am
## [1] 13
##
## $gear
## [1] 118
##
## $carb
## [1] 90
```

sapply

```
sapply(mt_data,mean)
```

```
##        mpg        cyl       disp         hp       drat         wt       qsec
##  20.090625   6.187500 230.721875 146.687500   3.596563   3.217250  17.848750
##         vs         am       gear       carb
##   0.437500   0.406250   3.687500   2.812500
```

tapply

```
tapply(mt_data$mpg,mt_data$cyl,sum)
```

```
##     4     6     8
## 293.3 138.2 211.4
```