Untitled

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```
File1 <- read.csv("C:/Users/heere/OneDrive/Desktop/ASSIGNMENT 1 FML/Universities List - 1 (1).csv")
File1
```

```
##             University_names PARCEL_ID GROSS_AREA Shape__Area Shape__Length
## 1          Temple University    155059     231347  231347.865     2519.9679
## 2          Temple University    392760      47425   47426.015     1281.7251
## 3  Temple University Medical     13161      29301   29348.387      707.2776
## 4  Temple University Medical    324604      34030   33840.215      746.5503
## 5  Temple University Medical     18474      22500   22697.679      602.6341
## 6  Temple University Medical    272372     506603  498503.438     3085.6383
## 7     University of the Arts    208422      13350   13349.988      477.9994
## 8     University of the Arts    542656      38640   39003.837      931.2586
## 9     University of the Arts     88046      16648   16634.061      708.5103
## 10    University of the Arts    139329      13567   13747.561      469.1568
## 11    University of the Arts    195308       5193    5213.345      340.0758
## 12    University of the Arts    259264      19294   19378.185      615.5444
## 13    University of the Arts    288419       4920    5144.847      327.9308
## 14    University of the Arts    487380      21150   21081.861      581.2803
## 15       La Salle University     16858       1383    1369.704      208.3377
##      Code
## 1   Green
## 2   Green
## 3     Red
## 4     Red
## 5     Red
## 6     Red
## 7  Orange
## 8  Orange
## 9  Orange
## 10 Orange
## 11 Orange
## 12 Orange
## 13 Orange
## 14 Orange
## 15   Blue
```

```
#the choosen data is presented above
#the table shows the shape_area from the table.

mean(File1$Shape__Area)
```

```
## [1] 66539.13
```

```r
sd(File1$Shape__Area)
```

```
## [1] 131862.3
```

```r
#the above value show descriptive statistics
#for a selection of quantiative variable




table(File1$Shape__Length)
```

```
##
## 208.3376668 327.9307542 340.0757943 469.1568062 477.9994067 581.2803342
##           1           1           1           1           1           1
## 602.6341061 615.5444425 707.2776237 708.5103395 746.5502593  931.258573
##           1           1           1           1           1           1
## 1281.725069 2519.967862 3085.638343
##           1           1           1
```

```r
str(File1)
```

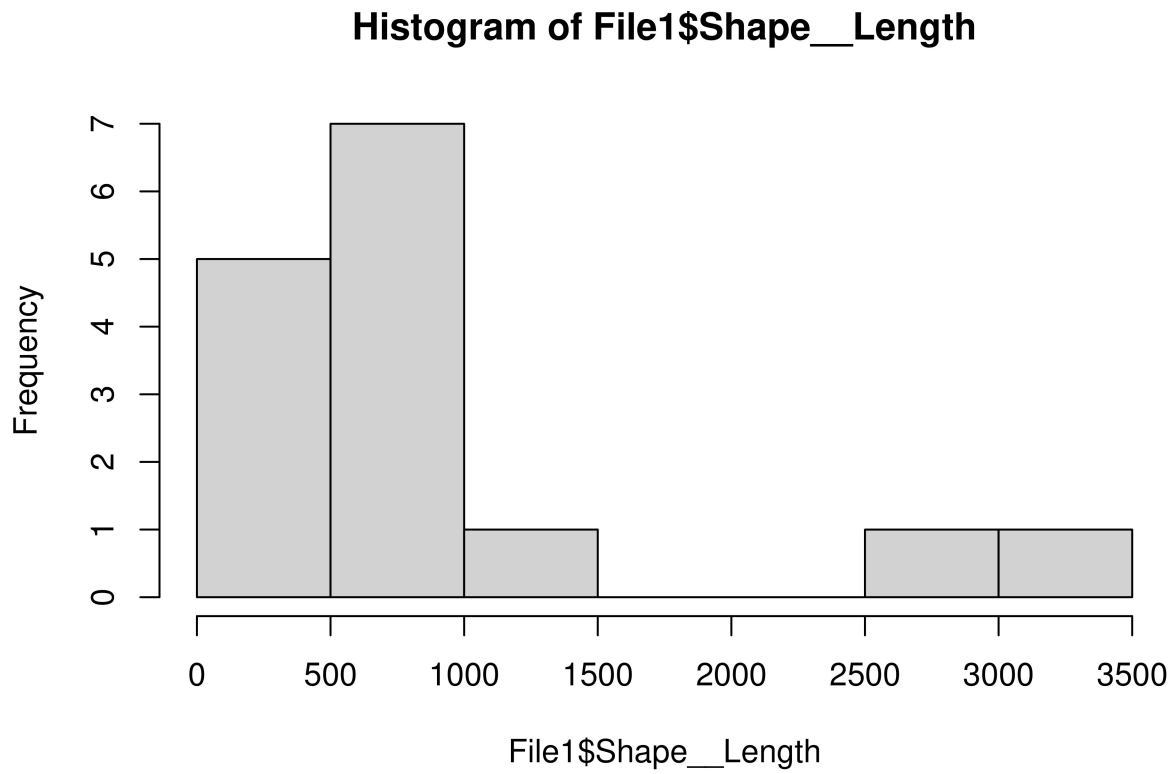
```
## 'data.frame':    15 obs. of  6 variables:
##  $ University_names: chr  "Temple University" "Temple University" "Temple University Medical" "Templ
##  $ PARCEL_ID       : int  155059 392760 13161 324604 18474 272372 208422 542656 88046 139329 ...
##  $ GROSS_AREA      : int  231347 47425 29301 34030 22500 506603 13350 38640 16648 13567 ...
##  $ Shape__Area     : num  231348 47426 29348 33840 22698 ...
##  $ Shape__Length   : num  2520 1282 707 747 603 ...
##  $ Code            : chr  "Green" "Green" "Red" "Red" ...
```

```r
#the above values represent categorical descriptive analysis of the variable.

File1$Shape__Area <- (File1$Shape__Area - mean(File1$Shape__Area)/sd(File1$Shape__Area))
File1$Shape__Area
```

```
##  [1] 231347.360  47425.511  29347.882  33839.710  22697.174 498502.933
##  [7]  13349.483  39003.332  16633.556  13747.057   5212.840  19377.681
## [13]   5144.342  21081.356   1369.199
```

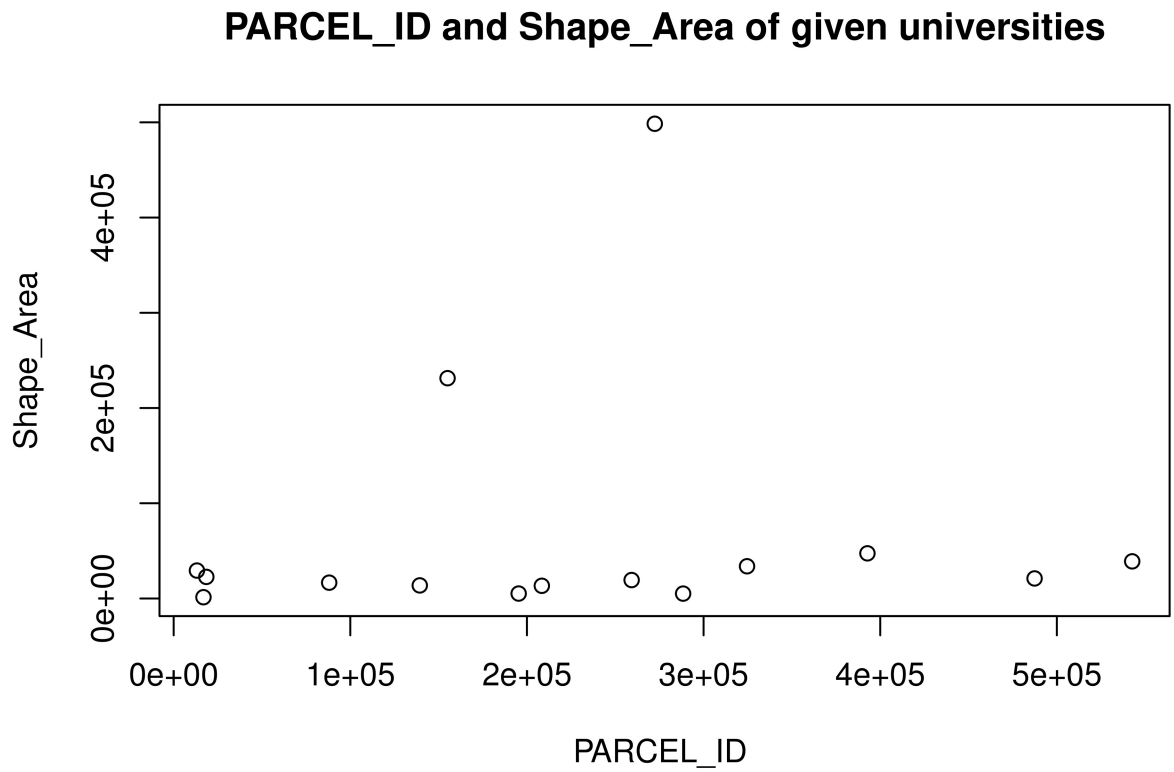
```r
#data transformation completed
hist(File1$Shape__Length)
```




```
#above is the histogram of data
#selected variable to plot is shape length


a <- File1$PARCEL_ID
b <- File1$Shape__Area

plot(a,b, main = "PARCEL_ID and Shape_Area of given universities" , xlab = "PARCEL_ID " ,ylab = "Shape_
```




```
#the above graph is scatterplot
#the selected variables are parcel id and shape area of universities.
```