assignment 1

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university\_list = read.csv("C:/Users/Sai Sree Reddy/Downloads/Desktop/universitylist.csv")  
university\_list

## Year Industry\_aggregation\_NZSIOC Industry\_code\_NZSIOC Industry\_name\_NZSIOC  
## 1 2020 Level 1 5 All industries  
## 2 2020 Level 1 6 All industries  
## 3 2020 Level 1 5 All industries  
## 4 2020 Level 1 6 All industries  
## 5 2020 Level 1 6 All industries  
## 6 2020 Level 1 3 All industries  
## 7 2020 Level 1 3 All industries  
## 8 2020 Level 1 6 All industries  
## 9 2020 Level 1 58 All industries  
## 10 2020 Level 1 58 All industries  
## 11 2020 Level 1 58 All industries  
## 12 2020 Level 1 67 All industries  
## 13 2020 Level 1 67 All industries  
## 14 2020 Level 1 67 All industries  
## Units Variable\_code  
## 1 Dollars (millions) H01  
## 2 Dollars (millions) H04  
## 3 Dollars (millions) H05  
## 4 Dollars (millions) H07  
## 5 Dollars (millions) H08  
## 6 Dollars (millions) H09  
## 7 Dollars (millions) H10  
## 8 Dollars (millions) H11  
## 9 Dollars (millions) H12  
## 10 Dollars (millions) H13  
## 11 Dollars (millions) H14  
## 12 Dollars (millions) H19  
## 13 Dollars (millions) H20  
## 14 Dollars (millions) H21  
## Variable\_name Variable\_category  
## 1 Total income Financial performance  
## 2 Total income Financial performance  
## 3 Interest, dividends and donations Financial performance  
## 4 Non-operating income Financial performance  
## 5 Total expenditure Financial performance  
## 6 Interest and donations Financial performance  
## 7 Interest and donations Financial performance  
## 8 Interest and donations Financial performance  
## 9 Interest and donations Financial performance  
## 10 Redundancy and severance Financial performance  
## 11 Salaries and wages to self employed commission agents Financial performance  
## 12 Salaries and wages to self employed commission agents Financial performance  
## 13 Salaries and wages to self employed commission agents Financial performance  
## 14 Opening stocks Financial performance  
## Value  
## 1 56  
## 2 56  
## 3 56  
## 4 72  
## 5 72  
## 6 86  
## 7 89  
## 8 72  
## 9 49  
## 10 49  
## 11 49  
## 12 98  
## 13 98  
## 14 98  
## Industry\_code\_ANZSIC06  
## 1 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 2 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 3 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 4 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 5 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 6 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 7 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 8 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 9 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 10 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 11 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 12 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 13 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)  
## 14 ANZSIC06 divisions A-S (excluding classes K6330, L6711, O7552, O760, O771, O772, S9540, S9601, S9602, and S9603)

mean(university\_list$Industry\_code\_NZSIOC)

## [1] 29.64286

sd(university\_list$Industry\_code\_NZSIOC)

## [1] 29.70265

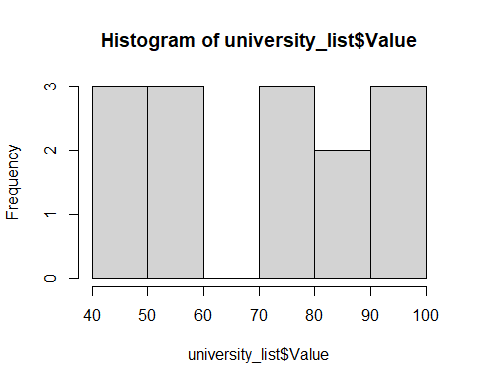
table(university\_list$Variable\_name)

##   
## Interest and donations   
## 4   
## Interest, dividends and donations   
## 1   
## Non-operating income   
## 1   
## Opening stocks   
## 1   
## Redundancy and severance   
## 1   
## Salaries and wages to self employed commission agents   
## 3   
## Total expenditure   
## 1   
## Total income   
## 2

university\_list$Industry\_code\_NZSIOC= mean(university\_list$Industry\_code\_NZSIOC)- sd(university\_list$Industry\_code\_NZSIOC)  
university\_list$Industry\_code\_NZSIOC

## [1] -0.05979009 -0.05979009 -0.05979009 -0.05979009 -0.05979009 -0.05979009  
## [7] -0.05979009 -0.05979009 -0.05979009 -0.05979009 -0.05979009 -0.05979009  
## [13] -0.05979009 -0.05979009

hist(university\_list$Value)



x = university\_list$Industry\_code\_NZSIOC  
y = university\_list$Value  
plot(x,y, main = "Area and Length", xlab = "Area", ylab = "Length")

