

Assignment1_ML_1

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```
dataset = read.csv("C:/Users/ravin/Downloads/sai sree/universitylist.csv")
dataset
```

```
##      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
```

```
## 1 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 2 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 3 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 4 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 5 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 6 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 7 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 8 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 9 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 10 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 11 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 12 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 13 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
## 14 ANZSIC06 divisions A-S (excluding classes K6330, L6711, 07552, 0760, 0771, 0772, S9540, S9601, S9
```

```
mean(dataset$Industry_code_NZSIOC)
```

```
## [1] 29.64286
```

```
sd(dataset$Industry_code_NZSIOC)
```

```
## [1] 29.70265
```

```
table(dataset$Variable_name)
```

```
##
```

```
## Interest and donations
```

```
## 4
```

```
## Interest, dividends and donations
```

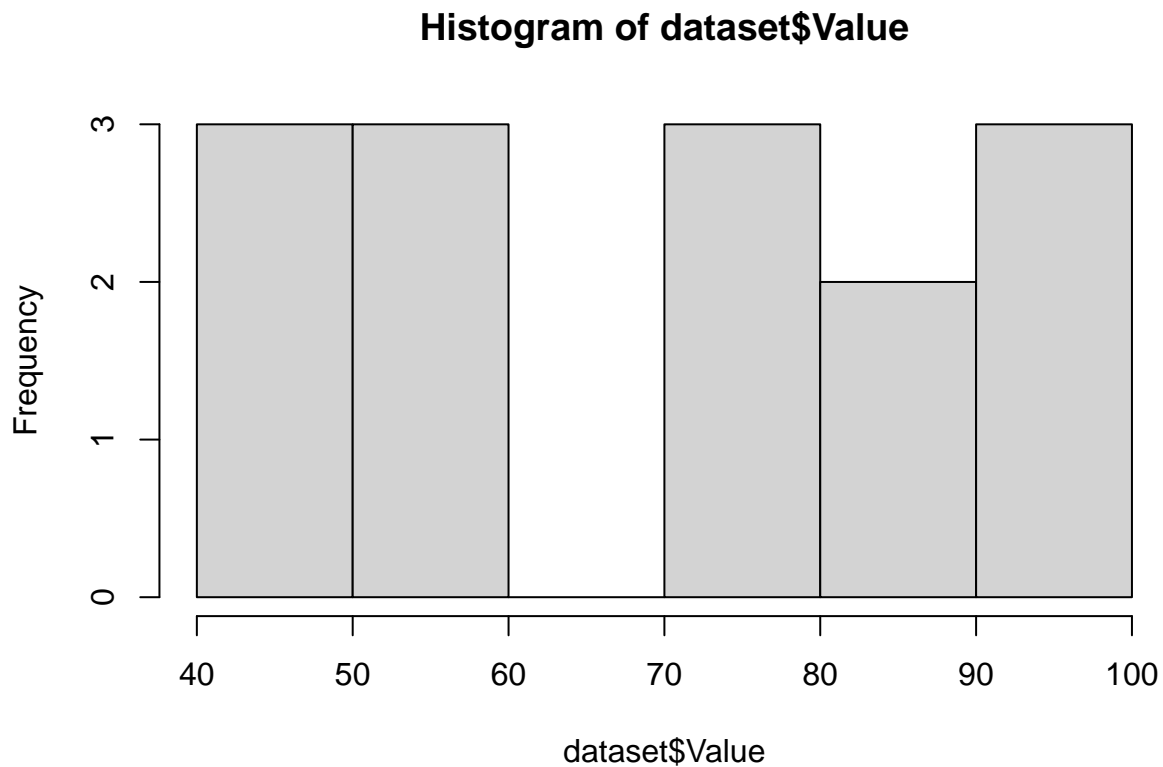
```
## 1
```

```
##                                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

dataset$Industry_code_NZSIOC= mean(dataset$Industry_code_NZSIOC)- sd(dataset$Industry_code_NZSIOC)
dataset$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(dataset$Value)
```



```
x = dataset$Industry_code_NZSIOC
y = dataset$Value
plot(x,y, main = "Area and Length", xlab = "Area", ylab = "Length")
```

