Assigment1

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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

setwd("C:/Users/Ananth/OneDrive/Documents/R/win-library/4.0/00LOCK")

setwd("C:/Users/Ananth/OneDrive/Desktop/MSBA Kent/Kent on campus employement/BA LAB/Lab 2")

I have used the data given by professor patuwo in Business Analytics lab sessions for the undegrad students

```
setwd("C:/Users/Ananth/OneDrive/Desktop/MSBA Kent/Kent on campus employement/BA LAB/Lab 2")

DS<-read.csv("FML.csv")  # reading data into DS
DS # displays the content in the excel file
```

```
##    Sales_Rep Business Age Female Years College Personality Certficates Feedback
## 1          1 Hardware  59      1     2     Yes    Diplomat           1     2.01
## 2          2 Hardware  52      0    10     Yes    Diplomat           4     3.64
## 3          3 Software  47      1     1     Yes    Explorer           1     3.88
## 4          4 Hardware  61      0     2     Yes    Diplomat           3     2.70
## 5          5 Software  39      0     1      No    Diplomat           5     3.44
## 6          6 Hardware  28      0     6     Yes    Explorer           1     2.43
## 7          7 Software  25      1     1     Yes    Explorer           5     3.30
## 8          8 Hardware  51      1    10      No    Explorer           0     2.15
## 9          9 Hardware  34      0     4     Yes    Diplomat           2     2.91
## 10        10 Hardware  38      1     1     Yes    Explorer           5     1.23
## 11        11 Software  53      1    11     Yes    Explorer           2     3.93
## 12        12 Hardware  41      1     1     Yes    Sentinel           1     2.26
## 13        13 Hardware  40      0     1      No    Diplomat           4     3.60
## 14        14 Software  41      0     2     Yes    Explorer           3     2.17
## 15        15 Hardware  46      1     2     Yes     Analyst           1     4.00
## 16        16 Hardware  38      1     4     Yes    Diplomat           1     2.37
## 17        17 Software  39      0     2      No    Sentinel           2     3.00
## 18        18 Hardware  52      1     1      No    Sentinel           0     2.72
## 19        19 Software  54      1     2     Yes    Explorer           5     2.04
## 20        20 Hardware  24      0     1     Yes     Analyst           1     2.66
## 21        21 Software  53      0     1     Yes    Explorer           2     2.42
## 22        22 Hardware  37      1     1     Yes    Diplomat           2     3.71
## 23        23 Software  32      1     1     Yes    Explorer           3     3.42
```

```
##    Salary NPS
## 1   70200   5
## 2  133000  10
## 3   52600   8
## 4   96000   6
## 5  122000   7
## 6   60000   6
## 7   68000   6
## 8   43800   5
## 9   92000   7
## 10  73400   6
## 11  93400   8
## 12  51800   5
## 13 116000   9
## 14  89000   6
## 15  61800   5
## 16  57400   4
## 17  57000   3
## 18  50600   4
## 19  90200   9
## 20  39000   3
## 21  75000   6
## 22  96600   9
## 23  61600   5
```

```
summary(DS) # descriptive statistics for the excel data
```

```
##    Sales_Rep      Business              Age            Female
##  Min.   : 1.0   Length:23          Min.   :24.00   Min.   :0.0000
##  1st Qu.: 6.5   Class :character   1st Qu.:37.50   1st Qu.:0.0000
##  Median :12.0   Mode  :character   Median :41.00   Median :1.0000
##  Mean   :12.0                      Mean   :42.78   Mean   :0.5652
##  3rd Qu.:17.5                      3rd Qu.:52.00   3rd Qu.:1.0000
##  Max.   :23.0                      Max.   :61.00   Max.   :1.0000
##      Years          College          Personality         Certficates
##  Min.   : 1.000   Length:23          Length:23          Min.   :0.000
##  1st Qu.: 1.000   Class :character   Class :character   1st Qu.:1.000
##  Median : 2.000   Mode  :character   Mode  :character   Median :2.000
##  Mean   : 2.957                                        Mean   :2.348
##  3rd Qu.: 3.000                                        3rd Qu.:3.500
##  Max.   :11.000                                        Max.   :5.000
##     Feedback         Salary            NPS
##  Min.   :1.230   Min.   : 39000   Min.   : 3.000
##  1st Qu.:2.315   1st Qu.: 57200   1st Qu.: 5.000
##  Median :2.720   Median : 70200   Median : 6.000
##  Mean   :2.869   Mean   : 76104   Mean   : 6.174
##  3rd Qu.:3.520   3rd Qu.: 92700   3rd Qu.: 7.500
##  Max.   :4.000   Max.   :133000   Max.   :10.000
```

```
summary(DS$Salary) # descriptive statistics for the quantitative data Salary , $ is used to access the
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   39000   57200   70200   76104   92700  133000
```

```r
summary(log(DS$Salary)) #data transformation using log function
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   10.57   10.95   11.16   11.19   11.44   11.80
```

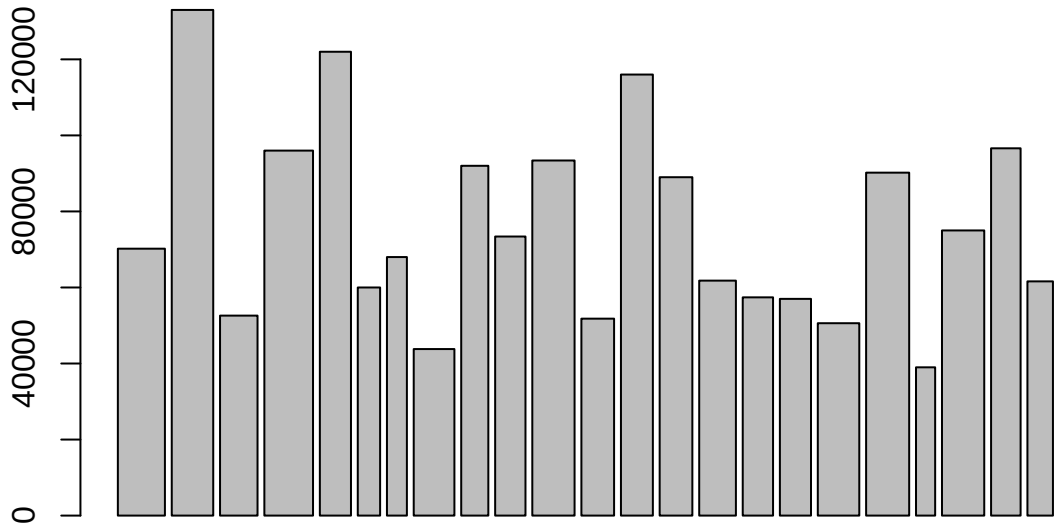
```r
Ftable <- table(DS$Personality) # personalities has categorical data
Ftable # displays the frequency of the category repeated in the personality & descriptive analysis of c
```

```
##
##  Analyst Diplomat Explorer Sentinel
##        2        8       10        3
```

```r
Btable <-table(DS$Business) # business is a categorical data
Btable # displays the frequency of the category in Business column in excel sheet & descriptive analysi
```

```
##
## Hardware Software
##       14        9
```

```r
barplot(DS$Salary,DS$Age)
```



```r
plot(DS$Salary,DS$Age) # Scatter plot
```