

Assignment_1

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```
#Importing dataset by giving the path  
univ_bank <- read.csv("C://Users//vishe//Downloads//archive//UniversalBank.csv")
```

```
#viewing the dataset by using the view()  
View(univ_bank)  
#source of the data  
#https://www.kaggle.com/datasets/lowecoryr/universalbank
```

```
#Finding mean for age of the people having account in Universal bank by using mean()  
mean(univ_bank$Age)
```

```
## [1] 45.3384
```

```
#Finding the standard deviation for the age of the people having account in Universal bank by using sd()  
sd(univ_bank$Age)
```

```
## [1] 11.46317
```

```
#The below value show descriptive statistics for a selection of quanitiative variable.
```

```
table(univ_bank$Age)
```

```
##  
## 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42  
## 12 28 53 78 91 103 123 136 125 120 120 134 151 107 106 115 133 125 136 126  
## 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62  
## 149 121 127 127 113 118 115 138 129 145 112 143 125 135 132 143 132 127 122 123  
## 63 64 65 66 67  
## 108 78 80 24 12
```

```
str(univ_bank)
```

```
## 'data.frame':    5000 obs. of  14 variables:  
## $ ID             : int  1 2 3 4 5 6 7 8 9 10 ...  
## $ Age            : int  25 45 39 35 35 37 53 50 35 34 ...  
## $ Experience      : int  1 19 15 9 8 13 27 24 10 9 ...
```

```
## $ Income      : int  49 34 11 100 45 29 72 22 81 180 ...
## $ ZIP.Code    : int  91107 90089 94720 94112 91330 92121 91711 93943 90089 93023 ...
## $ Family      : int   4 3 1 1 4 4 2 1 3 1 ...
## $ CCAvg       : num  1.6 1.5 1 2.7 1 0.4 1.5 0.3 0.6 8.9 ...
## $ Education   : int   1 1 1 2 2 2 2 3 2 3 ...
## $ Mortgage    : int   0 0 0 0 0 155 0 0 104 0 ...
## $ Personal.Loan : int   0 0 0 0 0 0 0 0 0 1 ...
## $ Securities.Account: int  1 1 0 0 0 0 0 0 0 0 ...
## $ CD.Account   : int   0 0 0 0 0 0 0 0 0 0 ...
## $ Online       : int   0 0 0 0 0 1 1 0 1 0 ...
## $ CreditCard   : int   0 0 0 0 1 0 0 1 0 0 ...
```

#The below values represent categorical descriptive analysis of the variable.

#below is the data transformation

```
univ_bank$Age <- (univ_bank$Age - mean(univ_bank$Experience)/sd(univ_bank$Age))
univ_bank$Age
```

```
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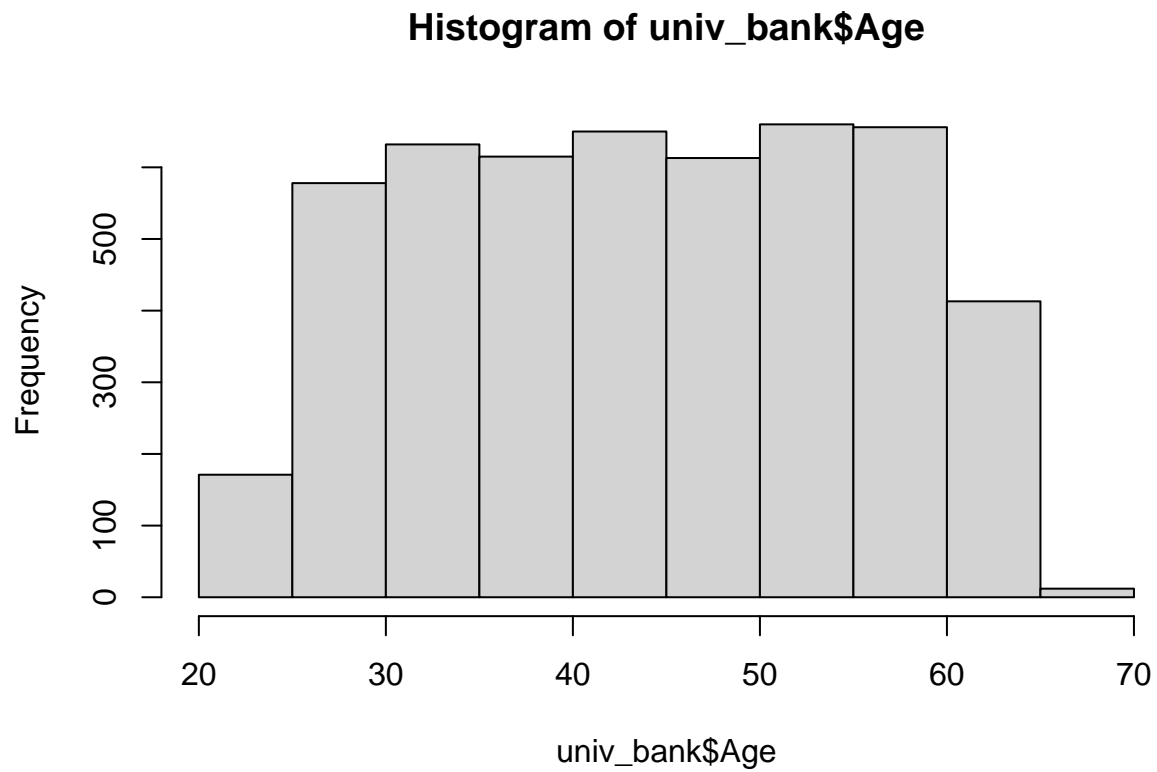
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## [4825] 30.24616 54.24616 54.24616 28.24616 50.24616 29.24616 35.24616 28.24616
## [4833] 27.24616 47.24616 47.24616 63.24616 52.24616 34.24616 54.24616 32.24616
## [4841] 31.24616 57.24616 47.24616 59.24616 29.24616 43.24616 33.24616 35.24616
## [4849] 56.24616 47.24616 61.24616 53.24616 36.24616 43.24616 42.24616 56.24616
## [4857] 54.24616 35.24616 48.24616 32.24616 49.24616 47.24616 31.24616 59.24616
## [4865] 39.24616 48.24616 39.24616 36.24616 49.24616 61.24616 53.24616 44.24616
## [4873] 25.24616 57.24616 24.24616 59.24616 42.24616 51.24616 32.24616 38.24616
## [4881] 54.24616 55.24616 41.24616 36.24616 58.24616 52.24616 49.24616 39.24616
## [4889] 23.24616 56.24616 59.24616 54.24616 41.24616 40.24616 46.24616 43.24616
## [4897] 38.24616 41.24616 50.24616 52.24616 24.24616 24.24616 31.24616 38.24616
## [4905] 62.24616 60.24616 52.24616 32.24616 38.24616 39.24616 46.24616 44.24616
## [4913] 49.24616 28.24616 63.24616 47.24616 27.24616 34.24616 48.24616 39.24616
## [4921] 40.24616 35.24616 29.24616 38.24616 34.24616 62.24616 35.24616 41.24616
## [4929] 55.24616 60.24616 61.24616 55.24616 57.24616 45.24616 24.24616 57.24616
## [4937] 43.24616 31.24616 59.24616 52.24616 44.24616 26.24616 50.24616 24.24616
## [4945] 47.24616 40.24616 49.24616 37.24616 42.24616 27.24616 45.24616 51.24616
## [4953] 27.24616 45.24616 43.24616 61.24616 37.24616 27.24616 48.24616 49.24616
## [4961] 56.24616 37.24616 44.24616 30.24616 51.24616 27.24616 39.24616 39.24616
## [4969] 56.24616 43.24616 35.24616 56.24616 56.24616 29.24616 57.24616 36.24616
## [4977] 27.24616 38.24616 55.24616 48.24616 27.24616 32.24616 34.24616 49.24616
## [4985] 25.24616 46.24616 30.24616 46.24616 32.24616 22.24616 53.24616 49.24616
## [4993] 28.24616 43.24616 62.24616 27.24616 28.24616 61.24616 63.24616 26.24616
```

```
#below is the histogram of data
hist(univ_bank$Age)
```



```
#plotting the data. Here we have use age and experience for plotting.  
#showing a linear regression line in the below graph define in colour "blue"  
x <- univ_bank$Age  
y <- univ_bank$Experience  
  
plot(x,y, main = "age and experience of universal bank" , xlab = "age" , ylab = "Experience")  
abline(lm(y~x),col ="blue")
```

age and experience of universal bank

