

# Assignment1

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2023-09-11

```
knitr::opts_chunk$set(echo = TRUE)
```

## R Markdown

##DOWNLOADED THE DATASET

<https://www.kaggle.com/datasets/smitisinghal/wholesale-customers-data>

##imported the dataset

```
Wholesale_data <- read.csv("C:/Users/durga/OneDrive/Desktop/data.csv", header  
= TRUE, sep = ",")
```

##DESCRIPTIVE STATISTICS

head (Wholesale\_data)

	Channel	Region	Fresh	Milk	Grocery	Frozen	Detergents_Paper	Delicassen
## 1	2	3	12669	9656	7561	214	2674	1338
## 2	2	3	7057	9810	9568	1762	3293	1776
## 3	2	3	6353	8808	7684	2405	3516	7844
## 4	1	3	13265	1196	4221	6404	507	1788
## 5	2	3	22615	5410	7198	3915	1777	5185
## 6	2	3	9413	8259	5126	666	1795	1451

summary (Wholesale\_data)

	Channel	Region	Fresh	Milk
## Min.	:1.000	Min. :1.000	Min. : 3	Min. : 55
## 1st Qu.:	:1.000	1st Qu.:2.000	1st Qu.: 3128	1st Qu.: 1533
## Median	:1.000	Median :3.000	Median : 8504	Median : 3627
## Mean	:1.323	Mean :2.543	Mean : 12000	Mean : 5796
## 3rd Qu.:	:2.000	3rd Qu.:3.000	3rd Qu.: 16934	3rd Qu.: 7190
## Max.	:2.000	Max. :3.000	Max. :112151	Max. :73498

	Grocery	Frozen	Detergents_Paper	Delicassen
## Min.	: 3	Min. : 25.0	Min. : 3.0	Min. : 3.0
## 1st Qu.:	2153	1st Qu.: 742.2	1st Qu.: 256.8	1st Qu.: 408.2
## Median	: 4756	Median : 1526.0	Median : 816.5	Median : 965.5
## Mean	: 7951	Mean : 3071.9	Mean : 2881.5	Mean : 1524.9
## 3rd Qu.:	:10656	3rd Qu.: 3554.2	3rd Qu.: 3922.0	3rd Qu.: 1820.2
## Max.	:92780	Max. :60869.0	Max. :40827.0	Max. :47943.0

##DESCRIPTIVE STATISTICS FOR QUANTITATIVE VARIABLES

```
quantitative_variables = c("Milk", "Grocery")
```

```
summary_variables = summary(Wholesale_data[quantitative_variables])
```

```
print(summary_variables)
```

```
##           Milk           Grocery
## Min.      :   55   Min.      :    3
## 1st Qu.: 1533   1st Qu.: 2153
## Median : 3627   Median : 4756
## Mean     : 5796   Mean     : 7951
## 3rd Qu.: 7190   3rd Qu.:10656
## Max.     :73498   Max.     :92780

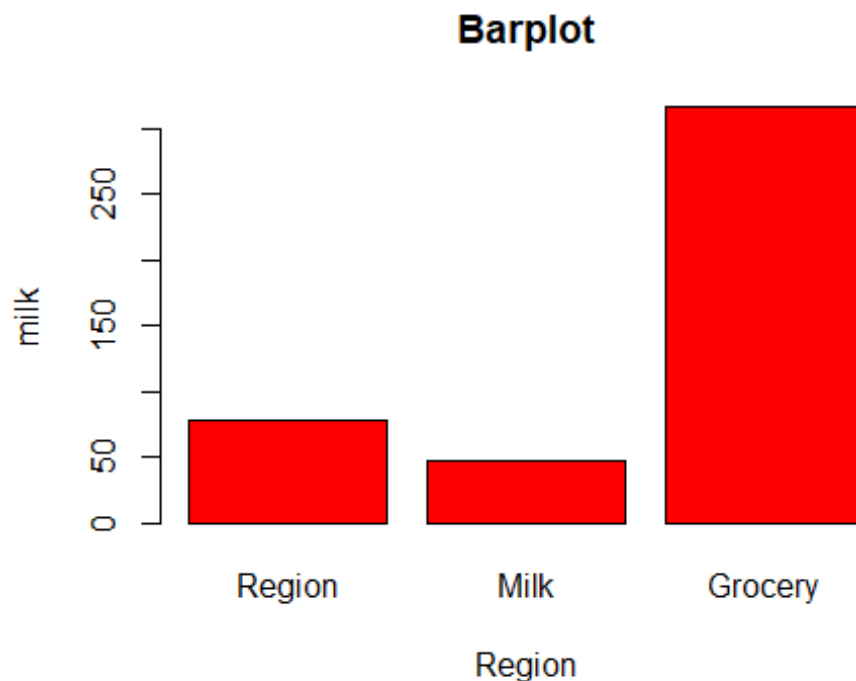
##transformation
Transformation = Wholesale_data$Milk/100
summary(Transformation)

##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      0.55  15.33   36.27   57.96   71.90   734.98

##Bar Plot
x=table(Wholesale_data$Region)
print(x)

##
##      1      2      3
##     77     47    316

barplot.default(x,names.arg = c("Region", "Milk", "Grocery"),
xlab = "Region", ylab = "milk",
col = "Red", main = "Barplot")
```



```
##Scatter Plot
##Scatter plot for milk consumption based on Region
plot(x = Wholesale_data$Milk, y = Wholesale_data$Region,
xlab = "Milk",
ylab = "Region",
xlim = c(0,3000),
ylim = c(0, 5000),
main = "Scatterplot"
)
```

