Assignment 1 - Machine learning

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```
data_set_generalmills = read.csv("C:/Users/gauth/Downloads/data_set_generalmills.csv")
data_set_generalmills
```

```
##            Cereal    Manfacturer   Target Calories Fat
## 1  Brain flakes      Kelloggs      adult       63 1.2
## 2      Cherrios          post      adult      100 1.3
## 3     honey_nut          Post   children      110 2.0
## 4    fruit_loops General_mills children      200 4.0
## 5           Trix General_mills    adult      100 1.6
## 6      fiber_one      Kelloggs    adult      145 0.3
## 7   honey_bunch General_mills children      100 5.0
## 8 rice_krispies          Post      adult      125 2.2
```

```
mean(data_set_generalmills$Calories)
```

```
## [1] 117.875
```

```
sd(data_set_generalmills$Calories)
```

```
## [1] 40.64283
```

```
#descriptive statistics of quantitative variable

table(data_set_generalmills$Target)
```

```
##
##   adult children
##       5        3
```
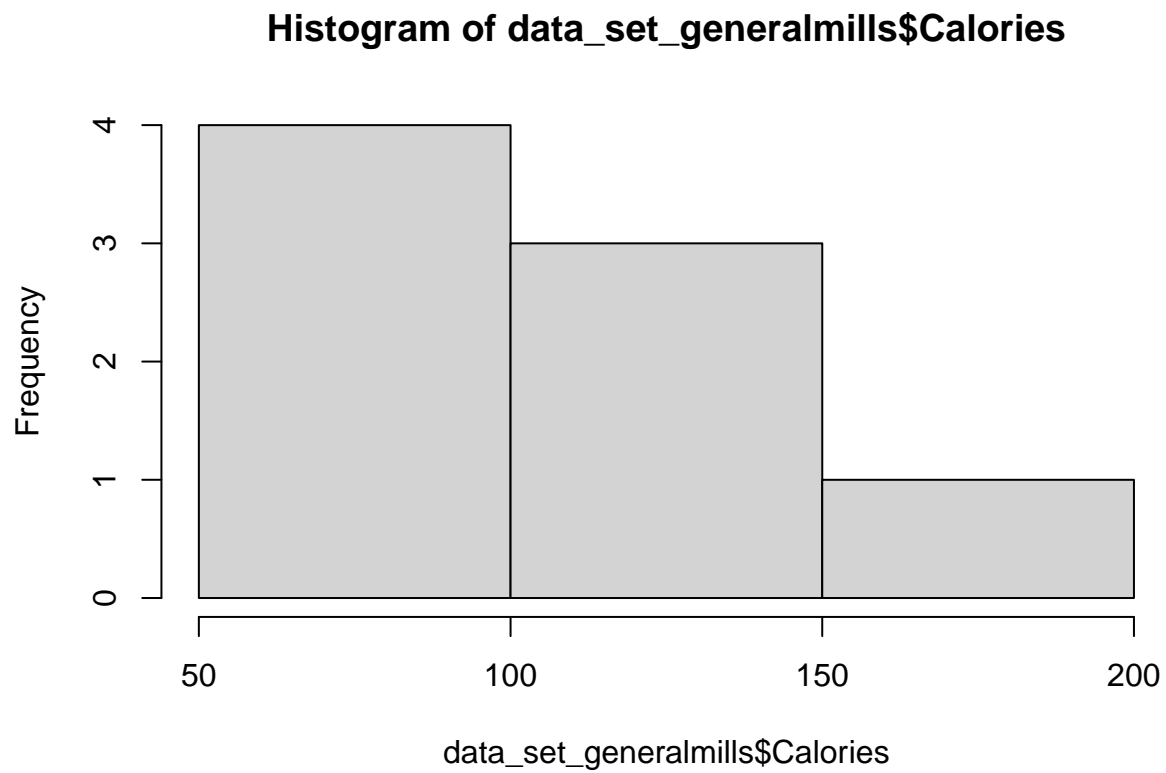
```
#descriptive statistics of categorial variable

data_set_generalmills$Calories_Transformed = (data_set_generalmills$Calories) - mean(data_set_generalmi

data_set_generalmills$Calories_Transformed
```

```
## [1]  60.09973  97.09973 107.09973 197.09973  97.09973 142.09973  97.09973
## [8] 122.09973
```

```
hist(data_set_generalmills$Calories)
```

Histogram of data_set_generalmills$Calories


```
x =data_set_generalmills$Calories
y =data_set_generalmills$Fat
plot(x,y, main = "calories and fat intake", xlab = "calories", ylab="fat")
```

calories and fat intake