ASSIGNMENT 1

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```r
#loading dataset
yt_channels <- read.csv("C://Users//vamsh/Downloads//topSubscribed.csv")

#link of the dataset https://www.kaggle.com/datasets/themrityunjaypathak/most-subscribed-1000-youtube-c

#looking the dataset
View(yt_channels)

#mean of the variable "rank"
mean(yt_channels$Rank)
```

```
## [1] 500.5
```

```r
#mode of the variable "rank"
mode(yt_channels$Rank)
```

```
## [1] "numeric"
```

```r
#standard deviation of the variable
sd(yt_channels$Rank)
```

```
## [1] 288.8194
```

```r
#str of the variable "Youtube.channel"
str(yt_channels$Youtube.Channel)
```

```
##  chr [1:1000] "T-Series" "YouTube Movies" "Cocomelon - Nursery Rhymes" ...
```

```r
#transformation of yt_channels dataset
yt_channels_transformed <- (yt_channels$Rank -mean(yt_channels$Rank)/sd(yt_channels$Rank))
yt_channels_transformed
```
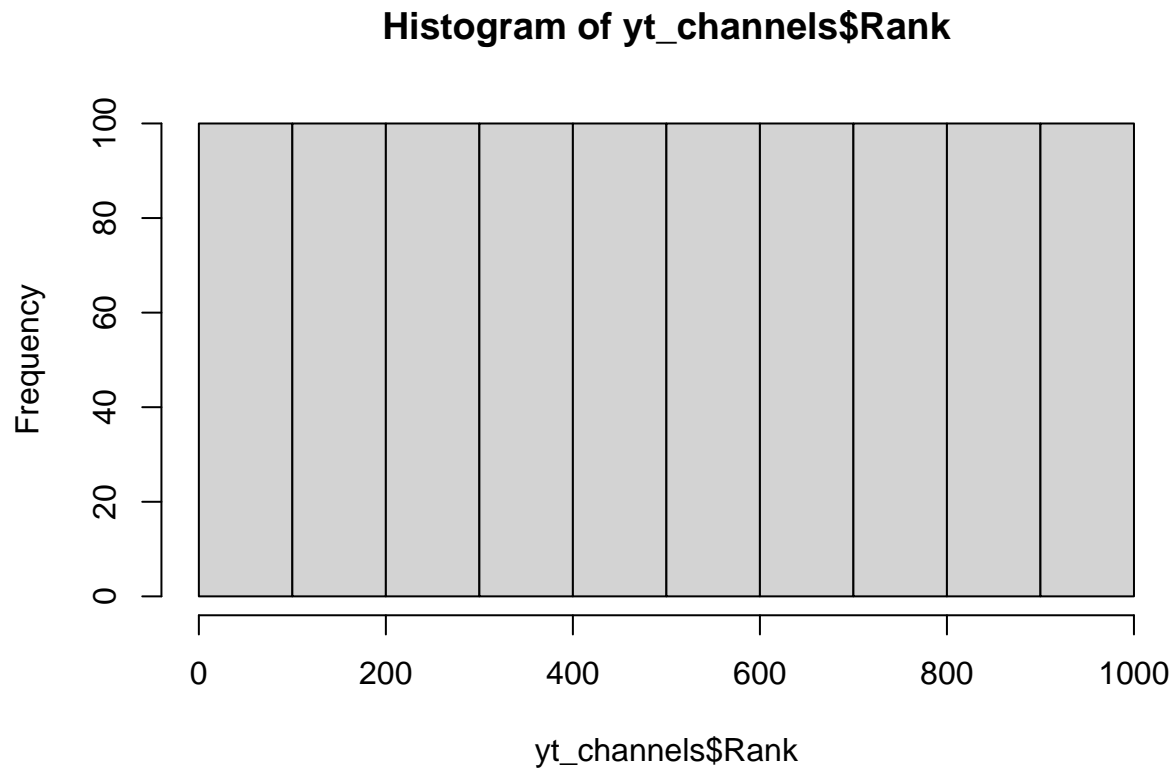
```
##    [1]  -0.7329166   0.2670834   1.2670834   2.2670834   3.2670834   4.2670834
##    [7]   5.2670834   6.2670834   7.2670834   8.2670834   9.2670834  10.2670834
##   [13]  11.2670834  12.2670834  13.2670834  14.2670834  15.2670834  16.2670834
##   [19]  17.2670834  18.2670834  19.2670834  20.2670834  21.2670834  22.2670834
##   [25]  23.2670834  24.2670834  25.2670834  26.2670834  27.2670834  28.2670834
##   [31]  29.2670834  30.2670834  31.2670834  32.2670834  33.2670834  34.2670834
```

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##    [49]  47.2670834  48.2670834  49.2670834  50.2670834  51.2670834  52.2670834
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```

```
#histogram of the variable "rank"
hist(yt_channels$Rank)
```

Histogram of yt_channels$Rank

```
#The graphical representation shown below is a scatterplot and
#the choosen variables are "rank" and "started"
M <- yt_channels$Started
N <- yt_channels$Rank
plot(M,N, main = "started and rank ", xlab = "started", ylab = "rank")
```

started and rank