

Assignment 1

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##Set the working directory

```
setwd( "~/Desktop/Fall 2021/QMM/Assignment 1")
```

#Reading a file for data

```
Dataset_Media <- read.csv("Dataset_Media.csv")
```

#head function gives the first 6 rows

```
head(Dataset_Media)
```

##	id	media	Preference	Category	Audience_Size
## 1	s1	Times Of india	1	Newspaper	23
## 2	s2	Hindustan Times	1	Newspaper	67
## 3	s3	Mumbai Mirror	1	Newspaper	43
## 4	s4	Lokmat	1	Newspaper	32
## 5	s5	The Economic Times	1	Newspaper	11
## 6	s6	Mid Day	1	Newspaper	54

#tail function gives the last 6 rows

```
tail(Dataset_Media)
```

##	id	media	Preference	Category	Audience_Size
## 12	s12	yahoo.com	3	Online	44
## 13	s13	ndtv.com	3	Online	17
## 14	s14	timesofIndia.com	3	Online	63
## 15	s15	news.google.com	3	Online	54
## 16	s16	Indiatimes.com	3	Online	49
## 17	s17	aajtak.in	3	Online	50

#str function will structure the data

```
str(Dataset_Media)
```

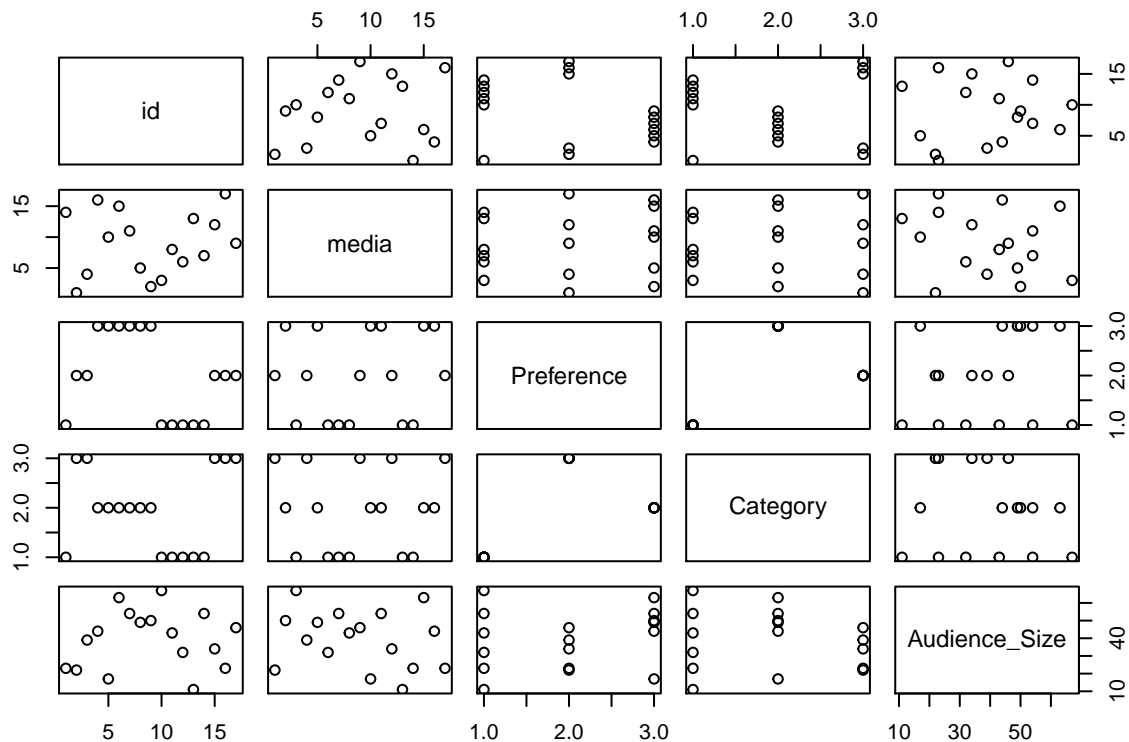
```
## 'data.frame': 17 obs. of 5 variables:
## $ id : chr "s1" "s2" "s3" "s4" ...
## $ media : chr "Times Of india" "Hindustan Times" "Mumbai Mirror" "Lokmat" ...
## $ Preference : int 1 1 1 1 1 1 2 2 2 2 ...
## $ Category : chr "Newspaper" "Newspaper" "Newspaper" "Newspaper" ...
## $ Audience_Size: int 23 67 43 32 11 54 34 23 46 22 ...
```

#summary function will give the summary of the data

```
summary(Dataset_Media)
```

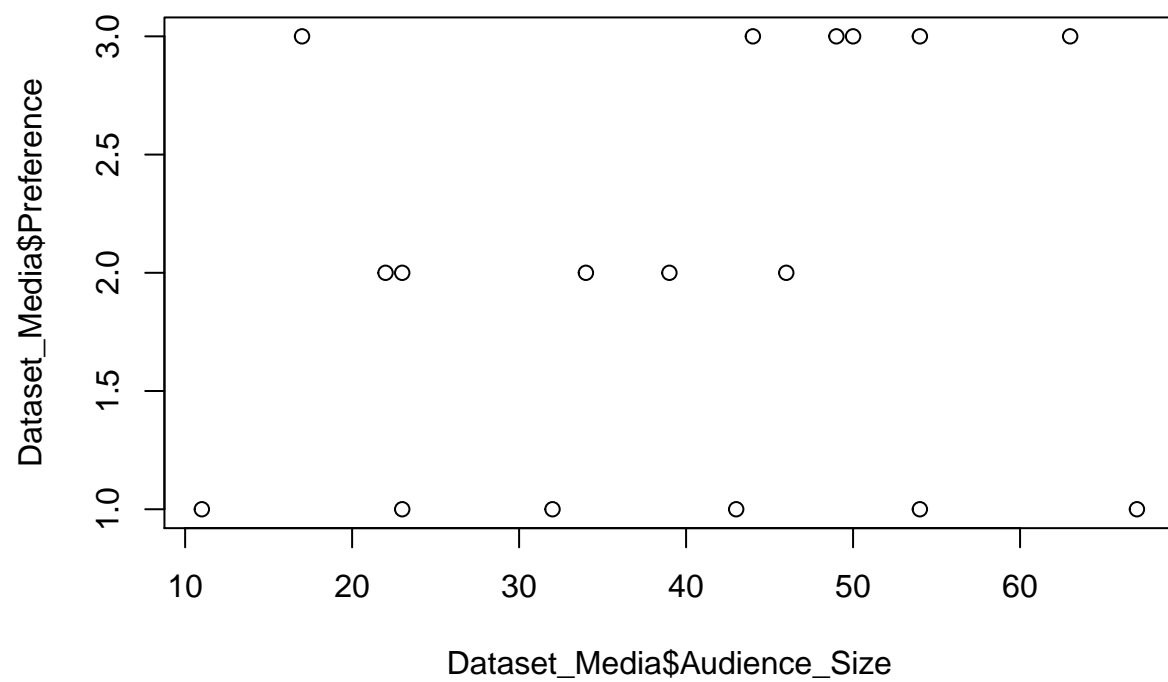
```
##      id          media      Preference  Category
## Length:17      Length:17      Min.   :1   Length:17
## Class :character Class :character 1st Qu.:1   Class :character
## Mode  :character Mode  :character Median :2   Mode  :character
##                                     Mean  :2
##                                     3rd Qu.:3
##                                     Max.   :3
## Audience_Size
## Min.   :11.00
## 1st Qu.:23.00
## Median :43.00
## Mean   :39.47
## 3rd Qu.:50.00
## Max.   :67.00
```

```
plot(Dataset_Media)
```



#X-Y plot for two quantitative variables(Scatterplot)

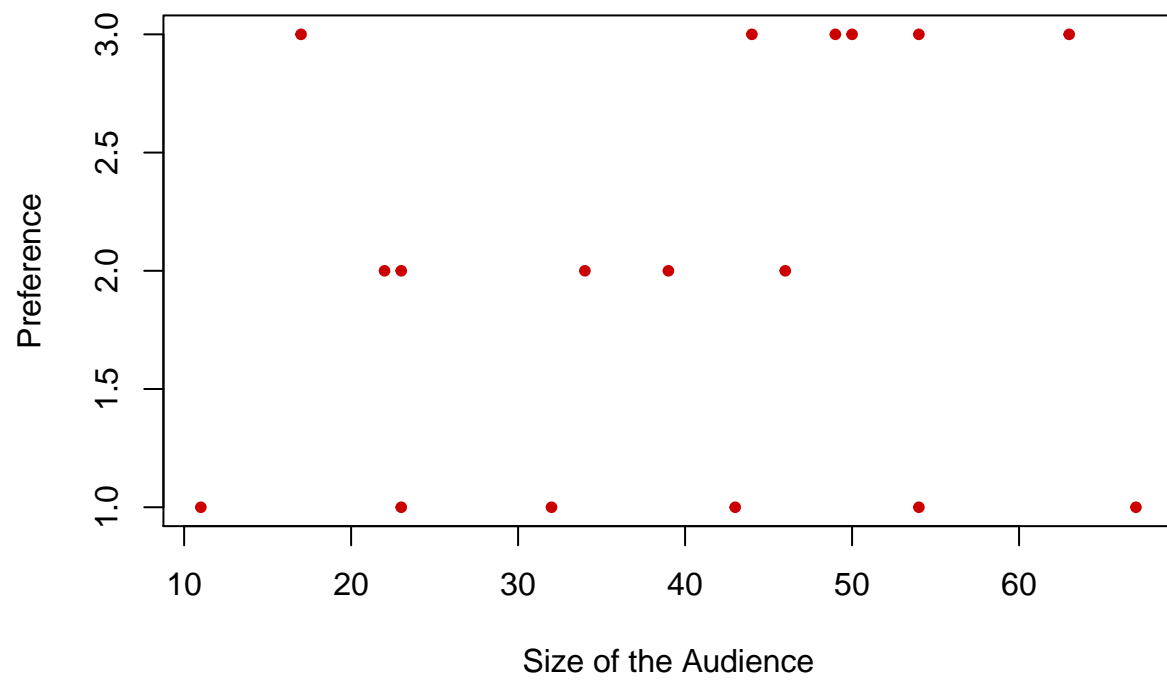
```
plot(Dataset_Media$Audience_Size, Dataset_Media$Preference)
```



#Add some Options

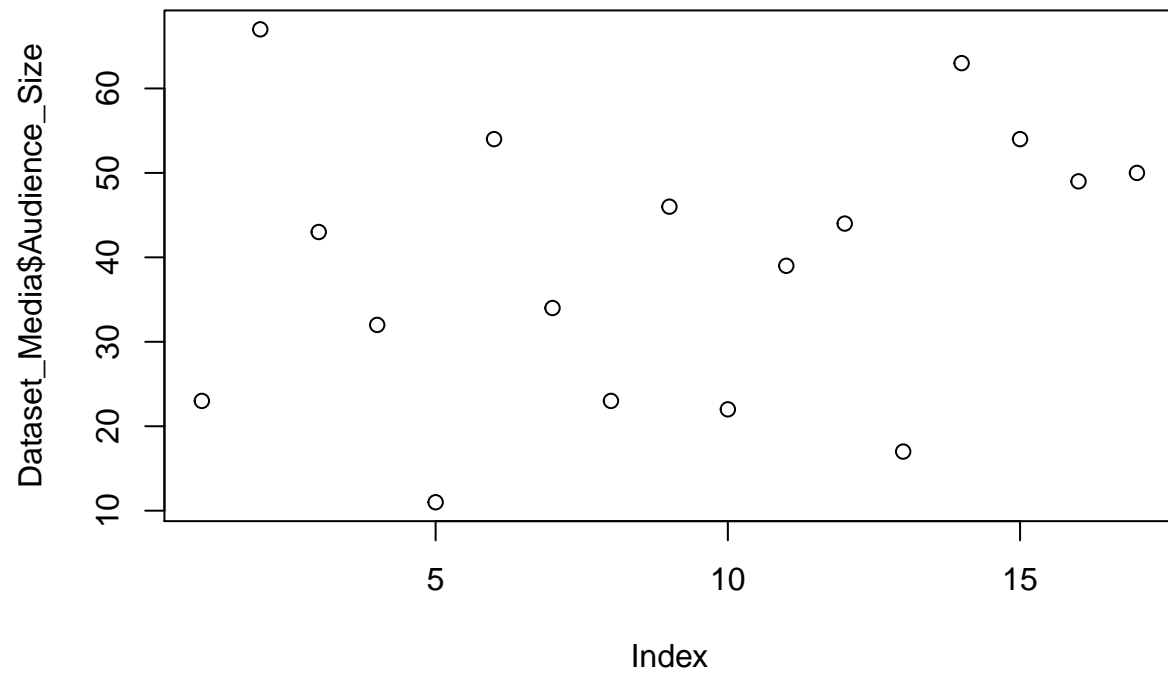
```
plot(Dataset_Media$Audience_Size, Dataset_Media$Preference, pch=20, col="#cc0000", main="Example of Media",
```

Example of Media



#Plotting a quantitative variable Audience_Size

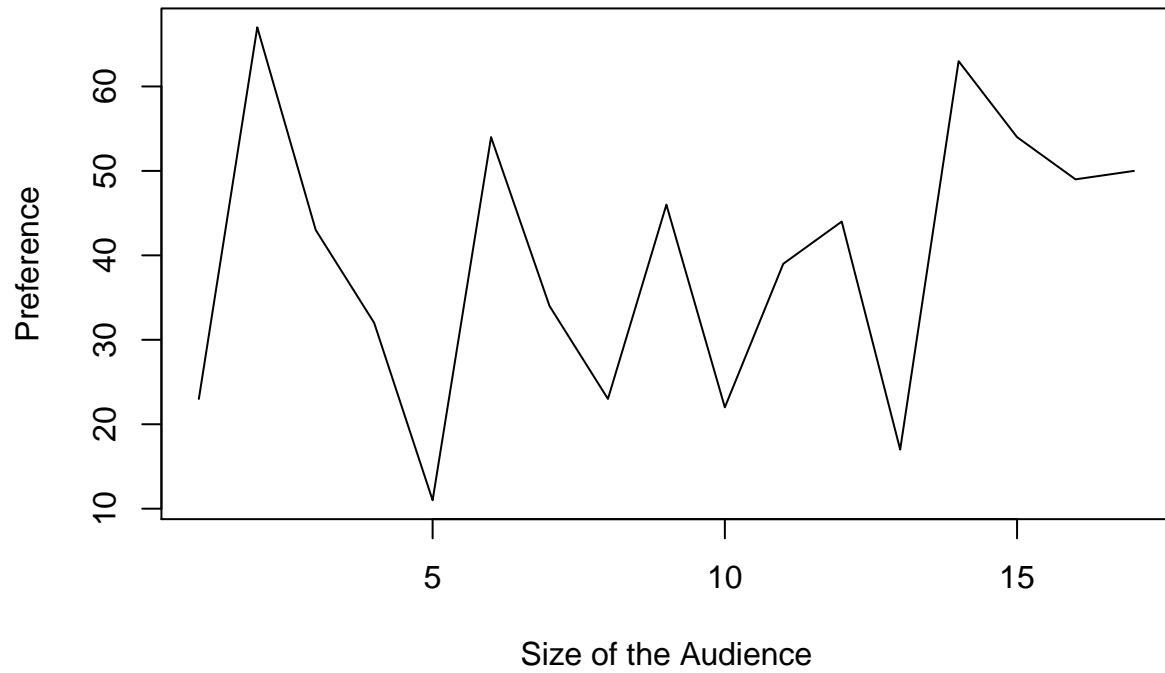
```
plot(Dataset_Media$Audience_Size)
```



```
#Lineplot,Histogram,Boxplot
```

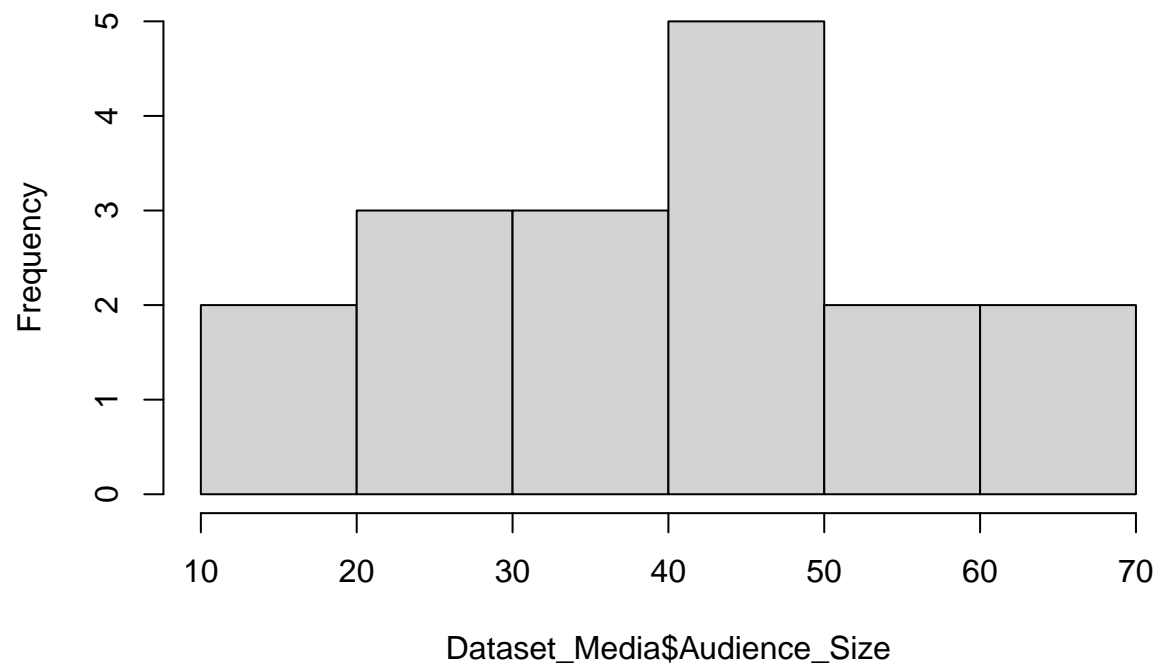
```
plot(Dataset_Media$Audience_Size,type="l",main="Example of Media",xlab="Size of the Audience",ylab="Pre
```

Example of Media

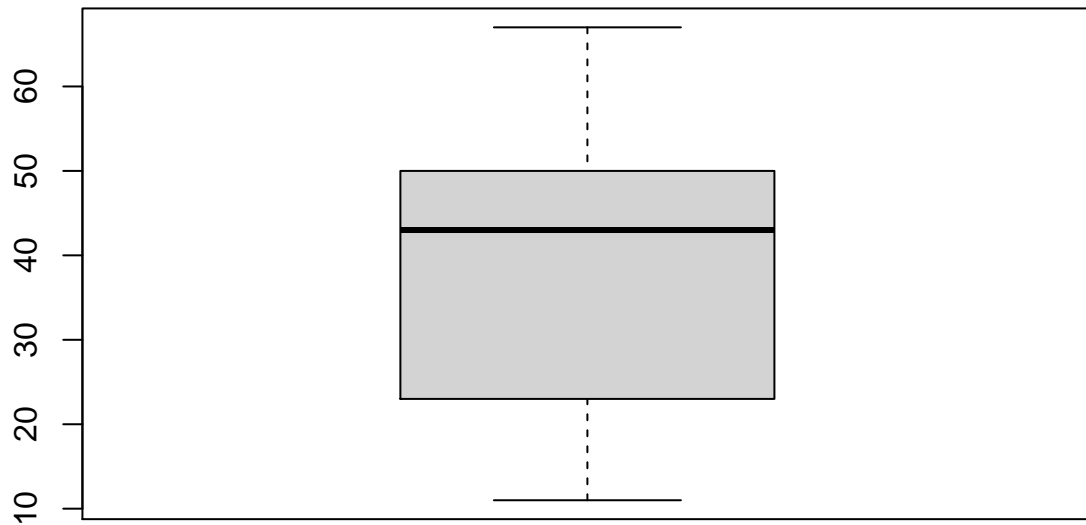


```
hist(Dataset_Media$Audience_Size)
```

Histogram of Dataset_Media\$Audience_Size



```
boxplot(Dataset_Media$Audience_Size)
```



```
#Working with functions
```

```
min(Dataset_Media$Audience_Size)
```

```
## [1] 11
```

```
max(Dataset_Media$Audience_Size)
```

```
## [1] 67
```

```
range(Dataset_Media$Audience_Size)
```

```
## [1] 11 67
```

```
mean(Dataset_Media$Audience_Size)
```

```
## [1] 39.47059
```

```
median(Dataset_Media$Audience_Size)
```

```
## [1] 43
```