Opdracht 3

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Opdracht 1 Done

Opdracht 2 Bij session en dan bij working directory. of met:

```
getwd()
```

```
## [1] "/home/niek254/Documents/Thema4/Week 3/groepB-Niek-Scholten-opdracht3"
```

Opdracht 3

```
read.csv('Week3_opdracht2.csv', header = TRUE)
```

```
##   id      naam leeftijd woonplaats Inkomen
## 1  1    Harrie       18  Groningen   16344
## 2  2     Klaas       23   Drachten   17000
## 3  3      Kees       44 Leeuwarden   45899
## 4  4   Shanita       36      Assen   34500
## 5  5 Charlotta       23      Emmen   23456
## 6  6    Nanine       21  Groningen   12876
## 7  7      Lema       67  Groningen   34899
## 8  8       Jan       33   Drachten   66799
```

Opdracht 4 Factoren zijn de gegevensobjecten die worden gebruikt om de gegevens te categoriseren en op te slaan als niveaus.

Opdracht 5

```
read.csv('Week3_opdracht2.csv', header = TRUE)
```

```
##   id      naam leeftijd woonplaats Inkomen
## 1  1    Harrie       18  Groningen   16344
## 2  2     Klaas       23   Drachten   17000
## 3  3      Kees       44 Leeuwarden   45899
## 4  4   Shanita       36      Assen   34500
## 5  5 Charlotta       23      Emmen   23456
## 6  6    Nanine       21  Groningen   12876
## 7  7      Lema       67  Groningen   34899
## 8  8       Jan       33   Drachten   66799
```

Opdracht 6

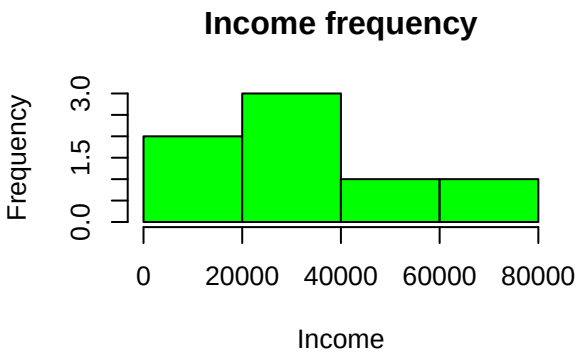
```
file = read.csv('Week3_opdracht6.csv', header = TRUE)
```

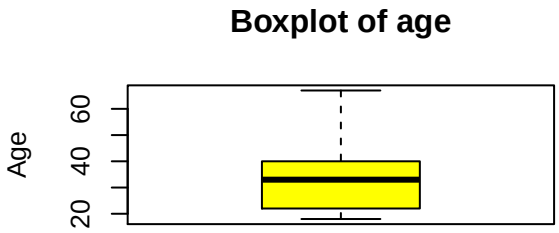
Er mist data in dit bestand.

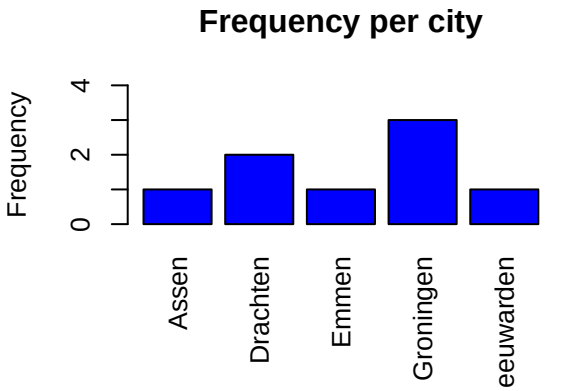
Opdracht 7

```
age = file[, 3]
income = file[, 5]

par(mfrow=c(2,2))
plot(age, income,
     type = "b",
     col = "Red",
     xlab = "Age",
     ylab = "Income",
     main = "Age and income")
hist(income,
     xlab = "Income",
     ylab = "Frequency",
     breaks = 2,
     col = "Green",
     main = "Income frequency")
boxplot(age,
        col = "Yellow",
        border = "Black",
        ylab = "Age",
        main = "Boxplot of age")
city = file[, 4]
plot(city,
     col ="Blue",
     ylab ="Frequency",
     ylim = c(0,4),
     las = 3,
     main = "Frequency per city")
```







Opdracht 8

```
cat("| Rijen: ", nrow(file), "| Kolommen: ", ncol(file), " |")
```

```
## | Rijen:  8 | Kolommen:  5  |
```

Opdracht 9

```
cat("The maximum income is: ", max(income, na.rm = TRUE), "\n")
```

```
## The maximum income is:  66799
```

```
cat("The minimum income is: ", min(income, na.rm = TRUE), "\n")
```

```
## The minimum income is:  16344
```

```
cat("The average income is: ", round(mean(income, na.rm = TRUE), 0), "\n\n")
```

```
## The average income is:  34128
```

```
cat("The maximum age is: ", max(age, na.rm = TRUE), "\n")
```

```
## The maximum age is:  67
```

```
cat("The minimum age is: ", min(age, na.rm = TRUE), "\n")
```

```
## The minimum age is:  18
```

```
cat("The average age is: ", round(mean(age, na.rm = TRUE), 0))
```

```
## The average age is:  35
```

Opdracht 10

```
summary(file)
```

```
##        id              naam      leeftijd          woonplaats
##  Min.   :1.00            :1   Min.   :18.00   Assen     :1
##  1st Qu.:2.75   Charlotta:1   1st Qu.:22.00   Drachten  :2
##  Median :4.50   Harrie   :1   Median :33.00   Emmen     :1
##  Mean   :4.50   Jan      :1   Mean   :34.57   Groningen :3
##  3rd Qu.:6.25   Klaas    :1   3rd Qu.:40.00   Leeuwarden:1
##  Max.   :8.00   Lema     :1   Max.   :67.00
##                 (Other)  :2   NA's   :1
##     Inkomen
##  Min.   :16344
##  1st Qu.:20228
##  Median :34500
##  Mean   :34128
##  3rd Qu.:40399
##  Max.   :66799
##  NA's   :1
```