```
title: "WEEK2 UPDATED"
author: "Heleine Fouda"
date: "`r Sys.Date()`"
output: html document
library(gapminder)
data("gapminder")
view(gapminder)
#Data overview
summary(gapminder)
glimpse(gapminder)
names(gapminder)
head(gapminder)
print(gapminder)
#Centrality
mean(gapminder$pop)
mean(gapminder$gdpPercap)
mean(gapminder$lifeExp)
median(gapminder$pop)
median(gapminder$gdpPercap)
median(gapminder$lifeExp)
var(gapminder$pop)
var(gapminder$gdpPercap)
```

var(gapminder\$lifeExp)

```
summary(gapminder$pop)
cor.test(gapminder$qdpPercap,gapminder$lifeExp)
#Create a subset of the data frame
library(gapminder)
data("gapminder")
gapminder 3 <- gapminder[25:48,3:6, drop= FALSE]</pre>
view(gapminder 3)
print(gapminder 3)
head(gapminder 3)
#Create new column names in the new data frame
library(tidyverse)
 gapminder 3 %>%
mutate(Population=
pop,Life Expectancy=lifeExp,GDP=qdpPercap) %>%
select(Population,Life Expectancy,GDP)
head(gapminder 3)
print(gapminder 3)
# summary of new data frame
summary(gapminder 3)
# Assigning new columns names
```

```
gapminder_4 <- c(gapminder_3 %>%
mutate(Population=
pop,Life_Expectancy=lifeExp,GDP=gdpPercap) %>%
select(Population,Life_Expectancy,GDP))
print(gapminder_4)
glimpse (gapminder_4)
head(gapminder_4)

# comparing Life Expectancy and GDP in new data
frame

gapminder_4[c("Life_Expectancy","GDP")]

# comparing lifeExp and gdpPercap in original data
frame
gapminder[c("lifeExp","gdpPercap")]
```