Lesson-3—02.05.2023.R

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```
library(readxl)
```

Warning: Paket 'readxl' wurde unter R Version 4.2.3 erstellt

```
data_mpc <- read_excel("data_mpc.xlsx",</pre>
                        sheet = 1, skip = 1)
countries <- unique(data_mpc$country)</pre>
cols <- cols <- c("blue", "red", "green", "orange", "black", "purple")</pre>
par(mfrow = c(2, 3))
for (i in 1:length(countries)) {
 plot(x = data_mpc$income[data_mpc$country == countries[i]],
       y = data_mpc$consumption[data_mpc$country == countries[i]],
       xlim = c(min(data_mpc$income[data_mpc$country == countries[i]]),
                max(data_mpc$income[data_mpc$country == countries[i]])),
       ylim = c(min(data_mpc$consumption[data_mpc$country == countries[i]]),
                max(data mpc$consumption[data mpc$country == countries[i]])),
       main = countries[i],
       xlab = "Income",
       ylab = "Consumption")
 reg <- lm(data_mpc$consumption[data_mpc$country == countries[i]] ~</pre>
              data_mpc$income[data_mpc$country == countries[i]])
  abline(reg, col = cols[i])
  legend("topleft",
         legend = paste0("MPC:",round(reg$coefficients[2], digits = 2)),
         col = cols[i],
         lty = 1,
         lwd = 1,
         bty = "n"
         cex = 0.8
}
```

