

Príloha

```
#R-kód
#načítanie dát športových činností – tréningy a preteky
dokopy<-read_excel("dokopy.xlsx", col_names = TRUE)
as.data.frame(dokopy)
dokopy1<-dokopy[, -c(7,8,9)]
dokopyynove<-as.data.frame(dokopy1)

#príprava dát
library(dplyr)
zona2dokopy<- select(dokopyynove, zona2, zona1, zona3, zona4, zona5, zona6)
zona3dokopy<- select(dokopyynove, zona3, zona1, zona2, zona4, zona5, zona6)
zona4dokopy<- select(dokopyynove, zona4, zona1, zona2, zona3, zona5, zona6)
zona5dokopy<- select(dokopyynove, zona5, zona1, zona2, zona3, zona4, zona6)
zona6dokopy<- select(dokopyynove, zona6, zona1, zona2, zona3, zona4, zona5)

#pivot transformácia
pivot_zona1<-pivotCoord(dokopyynove)
pivot_zona2<-pivotCoord(zona2dokopy)
pivot_zona3<-pivotCoord(zona3dokopy)
pivot_zona4<-pivotCoord(zona4dokopy)
pivot_zona5<-pivotCoord(zona5dokopy)
pivot_zona6<-pivotCoord(zona6dokopy)

colnames(pivot_zona1)<- (c("p1", "p2", "p3", "p4", "p5"))
zonalcel<-cbind(pivot_zona1, dokopy[c(7,8,9)])

colnames(pivot_zona2)<- (c("p1", "p2", "p3", "p4", "p5"))
zona2cel<-cbind(pivot_zona2, dokopy[c(7,8,9)])

colnames(pivot_zona3)<- (c("p1", "p2", "p3", "p4", "p5"))
zona3cel<-cbind(pivot_zona3, dokopy[c(7,8,9)])

colnames(pivot_zona4)<- (c("p1", "p2", "p3", "p4", "p5"))
zona4cel<-cbind(pivot_zona4, dokopy[c(7,8,9)])

colnames(pivot_zona5)<- (c("p1", "p2", "p3", "p4", "p5"))
zona5cel<-cbind(pivot_zona5, celkovo[c(7,8,9)])

colnames(pivot_zona6)<- (c("p1", "p2", "p3", "p4", "p5"))
zona6cel<-cbind(pivot_zona6, dokopy[c(7,8,9)])

#šesť modelov lineárnej regresie pre tss
lm1<-lm(tss ~ p1 + p2 + p3 + p4 + p5 + typ, data = zonalcel)
summary(lm1)
lm2<-lm(tss ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona2cel)
summary(lm2)
lm3<-lm(tss ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona3cel)
summary(lm3)
lm4<-lm(tss ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona4cel)
summary(lm4)
lm5<-lm(tss ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona5cel)
summary(lm5)
lm6<-lm(tss ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona6cel)
summary(lm6)

#šesť modelov lineárnej regresie pre kcal
lm1k<-lm(kcal ~ p1 + p2 + p3 + p4 + p5 + typ, data = zonalcel)
summary(lm1k)
lm2k<-lm(kcal ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona2cel)
summary(lm2k)
lm3k<-lm(kcal ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona3cel)
summary(lm3k)
lm4k<-lm(kcal ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona4cel)
summary(lm4k)
lm5k<-lm(kcal ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona5cel)
summary(lm5k)
lm6k<-lm(kcal ~ p1 + p2 + p3 + p4 + p5 + typ, data = zona6cel)
summary(lm6k)
```