Excercise Features (TBD until 25.06.2018)

(You may work in groups or help each other as long as you understand the code and are able to modify/explain each relevant code line (same goes for pasted code from the web).

Excercise 4 Creating a predictor

a. Do a leave-one-subject out test train split, eg.:

```
subjects<-levels(factor(data_prep$subject))
data_subject <- vector(mode = "list", length = nlevels(data$subject))

for (s in seq(1,nlevels(data$subject)))  data_subject[[s]]<- which(data$subject!=subje
trc = trainControl(index=data_subject)
model = train(data[,-c(1,2)], data$label, method = "nb", trControl=trc)
```

b. Use carets train function to train a classifier (try SVM, Naive Bayes, ...) using the leave-out-split

```
trainControl(method = "cv",index = model_these, classProbs =  TRUE))
```

c. Compare the leave-one-subject-out results to other train-control functions.

d. Go back to Excercise 2 and add more feature manually to improve your results

e. Select best feature using a wrapper using carets using caret Recursive Feature Elimination

Previous excercises