Some students have problems installing the R-package InformationValues. As far as I remember correctly, we only need that package for the function Concordance. As I do not know how to solve the installation problems, I have a workaround. I retrieved the code for that function from the github page of the package. If you run this code before using the function, you should get the correct output. So, here are the steps to follow:

1. create a new R script with the following code:

Concordance <- function (actuals, predictedScores){

fitted <- data.frame (Actuals=actuals, PredictedScores=predictedScores) # actuals and fitted

colnames(fitted) <- c('Actuals','PredictedScores') # rename columns

ones <- na.omit(fitted[fitted$Actuals==1, ]) # Subset ones

zeros <- na.omit(fitted[fitted$Actuals==0, ]) # Subsetzeros

totalPairs <- nrow (ones) \* nrow (zeros) # calculate total number of pairs to check

conc <- sum (c (vapply (ones$PredictedScores, function(x) {((x > zeros$PredictedScores))}, FUN.VALUE=logical(nrow(zeros)))), na.rm=T)

disc <- sum(c(vapply(ones$PredictedScores, function(x) {((x < zeros$PredictedScores))}, FUN.VALUE = logical(nrow(zeros)))), na.rm = T)

disc <- totalPairs - conc

# Calc concordance, discordance and ties

concordance <- conc/totalPairs

discordance <- disc/totalPairs

tiesPercent <- (1-concordance-discordance)

return(list("Concordance"=concordance, "Discordance"=discordance,

"Tied"=tiesPercent, "Pairs"=totalPairs))

}

1. save the script, for instance where the data are saved and call it “concordance.R”
2. every time you want to use the Concordance function, you run the following line first:

source("data/concordance.R")

(the function disappears when clearing the memory with rm(list=ls()), that is why you will have to load it more than once)