```
library(foreign)
library(caTools)
setwd("C:\\Users\\sksmi\\PeytoAccess\\Personal\\Bellevue\\DSC520\\dsc520")
surgery data <- read.arff('data\\ThoraricSurgery.arff')</pre>
surgery_data_split <- sample.split(surgery_data, SplitRatio = 0.7)</pre>
surgery training <- subset(surgery data, surgery data split==TRUE)</pre>
surgery testing <- subset(surgery data, surgery data split==FALSE)</pre>
surgery glm <- glm(Risk1Yr ~ DGN + PRE4 + PRE5 + PRE7 + PRE8 + PRE9 + PRE10 +</pre>
                   PRE11 + PRE14 + PRE17 + PRE19 + PRE25 + PRE30 + PRE32 +
AGE,
                   data=surgery training, family=binomial())
summary(surgery glm)
response <- predict(surgery glm, surgery testing, type="response")</pre>
confmatrix <- table(Actual Value=surgery testing$Risk1Yr, Predicted Value =</pre>
response > 0.5)
confmatrix
(confmatrix[[1,1]] + confmatrix[[2,2]]) / sum(confmatrix)
```