LAB LECTURE 10

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R-Script

```
library(tidyverse)
library(caret)
library(e1071)

data <- read.csv("credit-approval.csv",sep = ",")
data
str(data)
summary(data)

data %>%
   filter(A1 !="?",A2 !="?", A4 !="?", A5 !="?", A6 !="?", A7 !="?", A14 !="?") -> data
data %A16 <- factor(ifelse(data$A16 == "+", 1,0))
model <- glm(A16 ~ A2+A8 +A2:A8, data, family = binomial)
res1 <- predict(model,data,type = "response")
# res1
res1c <-factor(ifelse(res1 > 0.2,1,0))
# res1c
confusionMatrix(res1c, data$A16, mode = "prec_recall", positive="1")
```

Console

```
Reference
Prediction 0
                1
        0 318
        1 39 292
              Accuracy: 0.9342
                95% CI: (0.9123, 0.9519)
   No Information Rate: 0.5467
   P-Value [Acc > NIR] : < 2.2e-16
                 Kappa : 0.8685
 Mcnemar's Test P-Value : 2.161e-07
             Precision: 0.8822
                Recall: 0.9865
                    F1: 0.9314
            Prevalence: 0.4533
        Detection Rate: 0.4472
   Detection Prevalence: 0.5069
     Balanced Accuracy: 0.9386
       'Positive' Class: 1
```