```
> source('~/.active-rstudio-document', echo=TRUE)

> y = glm(ACTION ~ .,data=train, family=binomial)

> summary(y)

Call:
glm(formula = ACTION ~ ., family = binomial, data = train)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-2.9710   0.3393   0.3458   0.3502   0.5809

Coefficients:
                Estimate Std. Error z value Pr(>|z|)
(Intercept)     3.672e-01  1.057e+00   0.347  0.72837
RESOURCE       -3.821e-08  6.918e-07  -0.055  0.95596
MGR_ID         -4.873e-07  6.473e-07  -0.753  0.45153
ROLE_ROLLUP_1  -6.269e-06  2.560e-06  -2.449  0.01434
ROLE_ROLLUP_2   4.066e-06  4.513e-06   0.901  0.36756
ROLE_DEPTNAME   1.436e-07  1.268e-06   0.113  0.90981
ROLE_TITLE     -1.636e-06  7.029e-07  -2.327  0.01996
ROLE_FAMILY_DESC  2.464e-07  3.555e-07   0.693  0.48827
ROLE_FAMILY     1.838e-07  2.452e-07   0.750  0.45337
ROLE_CODE       2.346e-05  7.241e-06   3.240  0.00119
```

(Intercept)

RESOURCE

MGR_ID

ROLE_ROLLUP_1   *

ROLE_ROLLUP_2

ROLE_DEPTNAME

ROLE_TITLE   *

ROLE_FAMILY_DESC

ROLE_FAMILY

ROLE_CODE   **

Signif. codes:

0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 14492 on 32768 degrees of freedom

Residual deviance: 14464 on 32759 degrees of freedom

AIC: 14484

Number of Fisher Scoring iterations: 6

> predictX = predict(y, type="response")

```
> table(train$ACTION, predictX > 0.5)

    TRUE
 0  1897
 1 30872

> library("ROCR")

> ROCRpred = prediction(predictX, train$ACTION)

> auc = as.numeric(performance(ROCRpred, "auc")@y.values)

> ROCRperf = performance(ROCRpred, "tpr", "fpr")

> plot(ROCRperf)

> predictTest = predict(ResourceLog1, type="response", newdata=test)

> summary(predictTest)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 0.8504  0.9405  0.9412  0.9420  0.9427  0.9977
>
```