measurements <- function(real,pred,Name) {

Confusion\_Matrix<- table(real,pred,dnn = c("Real", "y\_pred"))

TN = Confusion\_Matrix[1,1]

FN= Confusion\_Matrix[2,1]

FP= Confusion\_Matrix[1,2]

TP= Confusion\_Matrix[2,2]

# True Negative Rate

Acc\_Negative = TN/(TN+FP)

# True Positive Rate

Acc\_Positive = TP/(TP+FN)

Recall = Acc\_Positive

# G-mean

G\_mean = (Acc\_Negative \* Acc\_Positive)^(1/2)

# Precision

Precision = TP/(TP+FP)

# Weighted Accuracy

Beta= 0.5 # Here we use equal weights for both true positive rate and true negative rate; i.e., β equals 0.5

Weighted\_Accuracy= (Beta \* Acc\_Positive) + ((1-Beta)\*Acc\_Negative)

# F-measure

F\_measure = (2 \* Precision \* Recall) /(Precision + Recall)

performance\_measures <- data.frame("Method"= Name,"Acc\_Positive(Recall)" =Acc\_Positive, "Acc\_Negative" = Acc\_Negative, "Precision" = Precision,"F\_measure" = F\_measure,"G\_mean" = G\_mean,"Weighted\_Accuracy" = Weighted\_Accuracy)

return(performance\_measures)

}