**RFunctions:**

length(matrix)

cbind(as.numeric(col1),as.numeric(col2))

ctree(class ~ gshclape + gcolor+ stshape +,data = input.dat);

predict(model\_tree, newdata=ans1)

data.frame(input[a+1:length(input[,1]),]);

treeresponse(model\_tree, newdata=ans1);

do.call(rbind, pred)

summary(pred);

NbClust(data=input7, diss=NULL, distance="euclidean", min.nc = 3, method="kmeans", index="all") max.nc=6, method="kmeans", index="all")

as.data.frame(matrix)

rbind(selected\_data,data\_7[,j[i]]);

plot(output.tree);

model\_tree <- ctree(class ~ gshclape + gcolor+ stshape +

stsurfabrg + stsurfblrg + rnumber + rtype,data = train1);

cor(data\_7[,1],data\_7[,i])

my.eigen$vectors[1,2]/my.eigen$vectors[2,2]

abline(0,pc1.slope,col="red")

View(my.cov)

sum(my.eigen$values)

prcomp(proj1)

plotcluster(train1.df, a$cluster)

clusplot(test1.df, a$cluster, color=TRUE, shade=TRUE)

kmeans(train2.df,2)

NbClust(data=train1.df, diss=NULL, distance="euclidean", min.nc=6, max.nc=10, method="kmeans", index="all")

knn(train1.df, test1.df, cl=t$class, k=1)

as.data.frame(t)

pam(test1.df, 2, metric="euclidean", stand=FALSE )

cov(test)  
table(z2$cluster)