task<-read.csv(file.choose(),header=T)

str(task)

task$Species<-factor(task$Species)

set.seed(1234)

pd<-sample(2,nrow(task),replace=TRUE,prob=c(0.8,0.2))

train<-task[pd==1,]

test<-task[pd==1,]

library(party)

tree<-ctree(Species~Id+SepalLengthCm+SepalWidthCm,data=task)

tree

tree<-ctree(Species~Id+SepalLengthCm+SepalWidthCm,data=train)

tree

plot(tree)

tree<-ctree(Species~Id+SepalLengthCm+SepalWidthCm+PetalLengthCm+PetalWidthCm,data=train)

tree

tree<-ctree(Species~Id+SepalLengthCm+SepalWidthCm+PetalLengthCm+PetalWidthCm,data=test,controls=ctree\_control(mincriterion=0.99,minsplit=500))

tree

plot(tree)

predict(tree,test,type="prob")

predict(tree,test)

library(rpart)

tree1<-rpart(Species~Id+SepalLengthCm+SepalWidthCm+PetalLengthCm+PetalWidthCm,train)

library(rpart.plot)

rpart.plot(tree1)

predict(tree1,test)

tab<-table(predict(tree),train$Species)

tab

1-sum(diag(tab))/sum(tab)