Roll No.: 40023

Date:

**Aim:** To perform practical of Decision Tree .

**Program Code:**

mydata<-data.frame(iris)

attach(mydata)

install.packages("rpart")

library(rpart)

model<-rpart(Species~Sepal.Length+Sepal.Width+Petal.Length+Petal.Width,data=mydata,method="class")

plot(model)

text(model,use.n=TRUE,all=TRUE,cex=0.8)

install.packages("tree")

library(tree)

model1<-tree(Species~Sepal.Length+Sepal.Width+Petal.Length+Petal.Width,data=mydata,method="class",split="gini")

plot(model1)

text(model1,all=TRUE,cex=0.6)

install.packages("party")

library(party)

model2<-ctree(Species~Sepal.Length+Sepal.Width+Petal.Length+Petal.Width,data=mydata)

plot(model2)

library(tree)

mydata<-data.frame(iris)

attach

model1<-tree(Species~Sepal.Length+Sepal.Width+Petal.Length+Petal.Width,data=mydata,method="class",control=tree.control(nobs=150,mincut=10))

plot(model1)

text(model1,all=TRUE,cex=0.6)

predict(model1,iris)(mydata)

model2<-ctree(Species~Sepal.Length+Sepal.Width+Petal.Length+Petal.Width,data=mydata,controls=ctree\_control(maxdepth=2))

plot(model2)

**Conclusion:** Practical of Decision tree has been executed successfully.