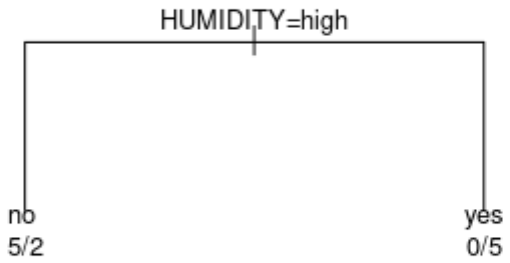
Test_case_1 tennis dataset

```
setwd("/home/saivinayP/R/Lab_Exercise/LAB5")
tennisdb<-read.csv("tennis.csv",header = TRUE)
names(tennisdb)<-gsub("\\.","",names(tennisdb)
str(tennisdb)
attributes(tennisdb)
library(rpart)

set.seed(200)
flagtennis<-sample(2,nrow(tennisdb),replace=TRUE,prob = c(0.7,0.3))
flagtennis
trainset1=tennisdb[which(flagtennis==1),]
testset1=tennisdb[which(flagtennis==2),]
str(trainset1)
str(testset1)

dtree1=rpart(PLAY~.,data=trainset1,control = rpart.control(10))
dtree1
str(dtree1)
plot(dtree1,margin = 0.5)
attributes(dtree1)
text(dtree1,use.n=TRUE,pretty=TRUE,cex=0.8)
```



Test_case_2

```
#set the cureent working directory
setwd("/home/saivinayP/R/Lab_Exercise/LAB5")
#Read the Data from CSV File
db<-read.csv("Diabetsdata.csv",header = TRUE)
names(db)<-gsub("\\.","",names(db))
str(db)
attributes(db)
#Load RPART Library
library(rpart)
#Divide the Data Set into trainig and Testing
#Method-1
set.seed(200)
flag<-sample(2,nrow(db),replace=TRUE,prob = c(0.7,0.3))
flag
trainset=db[which(flag==1),]
testset=db[which(flag==2),]
str(trainset)
str(testset)
#Build a decision tree using rpart
?rpart
dtree=rpart(type~.,data=trainset,control = rpart.control(10))
dtree
str(dtree)
plot(dtree,margin = 0.1)
attributes(dtree)
text(dtree,use.n=TRUE,pretty=TRUE,cex=0.8)
```