Experiment-2.1

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Subject Name: Data Mining Subject Code: 20CSP- 351

Aim – To perform the classification by decision tree induction using WEKA tools.

Objective-

- Represent the reading of file using R studio
- Displaying the pattern on RWeka, partykit and caTools Tool.
- Demonstration of Decision Tree.

Script and Output-

library(RWeka) library(partykit) library(caTools)

iris_data=iris
str(iris_data)
summary(iris_data)
spl=sample.split(iris_data,SplitRatio = 0.7)

dataTrain=subset(iris_data,spl==TRUE)
dataTest=subset(iris_data,spl==FALSE)
m1<-J48 (Species~.,dataTrain)</pre>

dataTestPred<- predict(m1,newdata=dataTest)
table_matrix<- table(dataTest\$Species,dataTestPred)
print(table_matrix)</pre>

```
accuracy_test <- sum(diag(table_matrix))/sum(table_matrix)
cat("Test Accuracy is",accuracy_test)
pdf("Iris_decision_plot.pdf",paper = "a4")
plot(m1,type="simple")
dev.off()</pre>
```

Output-



