**Practical no. 2**

> rainfall<--c(700,1100,800,1200,600,900,1000,700,800,200,100)

> rainfall.timeseries<-ts(rainfall,start=c(2012,1),frequency=12)

> print(rainfall.timeseries)

> plot(rainfall.timeseries)

**Practical no. 3**

> require(datasets)

> data(iris)

> str(iris)

> summary(iris)

> head(iris)

> iris.new<-iris[,c(1,2,3,4)]

> head(iris.new)

> result<-kmeans(iris.new)

> result<-kmeans(iris.new,3)

> result$size

> result$cluster

> plot(iris.new[c(1,2)],col=result$cluster)

> plot(iris.new[c(3,4)],col=result$cluster)

**Practical no. 4**

> x<-c(151,174,146,357,357,375,74,257,255,346)

> y<-c(265,247,254,476,587,237,538,259,120,134)

> relation<-lm(y~x)

> print(relation)

> print(summary(relation))

> a<-data.frame(x=170)

> result<-predict(relation,a)

> print(result)

**Practical no. 5**

> library(party)

> print(head(readingSkills))

> input.dat<-readingSkills[c(1:105),]

> output.tree<-ctree(

+ nativeSpeaker~age+shoeSize+score,

+ data=input.dat)

> plot(output.tree)

**Practical no. 6**

> rainfall1<-c(150,120,200,150,100,200,300,400,700,200,100,120)

> rainfall2<-c(50,420,100,450,500,100,600,80,20,500,600,220)

> combined.rainfall<-matrix(c(rainfall1,rainfall2),nrow=12)

> combined.rainfall

> rainfall.timeseries<-ts(combined.rainfall,start=c(2012,1),frequency=12)

> print(rainfall.timeseries)

> plot(rainfall.timeseries,main="Multiple Timeseries")