**EXPERIMENT – 8**

**Implement Bagging using Random Forest and experiment with dataset**

> set.seed(1)

> data(iris)

> iris.rf <- randomForest(Species ~ ., iris, keep.forest=FALSE)

> plot(margin(iris.rf))

> set.seed(647)

> myiris <- cbind(iris[1:4], matrix(runif(96 \* nrow(iris)), nrow(iris), 96))

> result <- rfcv(myiris, iris$Species, cv.fold=3)

> with(result, plot(n.var, error.cv, log="x", type="o", lwd=2))

> result <- replicate(5, rfcv(myiris, iris$Species), simplify=FALSE)

> error.cv <- sapply(result, "[[", "error.cv")

> matplot(result[[1]]$n.var, cbind(rowMeans(error.cv), error.cv), type="l",

+ lwd=c(2, rep(1, ncol(error.cv))), col=1, lty=1, log="x",

+ xlab="Number of variables", ylab="CV Error")

