## Practical 3:

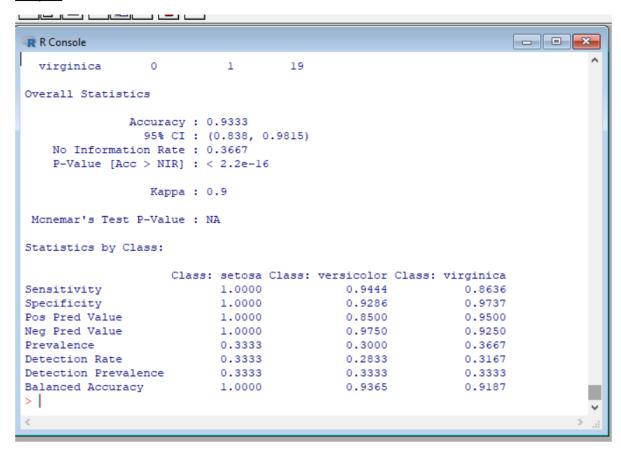
Aim: write program in R of Naive baye's theorem

## Requirement:

R tool

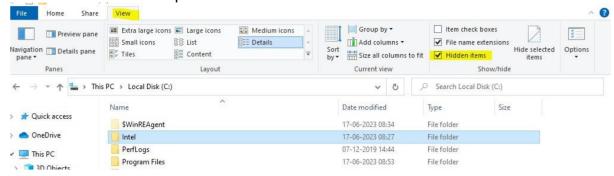
```
Code:
data(iris)
str(iris)
install packages("e1071")
install packages("caTools")
install packages("caret")
library(e1071)
library(caTools)
library(caret)
split <- sample.split(iris,SplitRatio=0.7)</pre>
train_c1 <-subset(iris,split=="TRUE")</pre>
test_c1 <- subset(iris,split == "FALSE")
train_scale <- scale(train_c1[, 1:4])</pre>
test_scale <- scale(test_c1[,1:4])
set.seed(120)
classifier_c1 <- naiveBayes(Species ~ ., data = train_c1)</pre>
classifier_c1
y_pred <- predict(classifier_c1, newdata=test_c1)</pre>
cm <- table(test_c1$Species, y_pred)</pre>
cm
confusionMatrix(cm)
```

## Output:



## **Install python package:**

- 1. You will need to make the hidden folder visible: go to "C:" drive on top click on tab "view"
- 2. Select "hidden Items" option:



- 3. Go to the below path:
  - C:\Users\Your Name\AppData\Local\Programs\Python\Python36-32\Scripts
- 4. Set the below path in command prompt and then use the below command: python -m pip install pymongo

