```
In [16]: from sklearn.model selection import train test split
         from sklearn.neighbors import KNeighborsClassifier
         from sklearn.metrics import classification report, confusion matrix
         from sklearn import datasets
         iris=datasets.load iris()
         x = iris.data
         y = iris.target
         for i in range(len(iris.target names)):
             print(" Label ",i," : ",iris.target names[i])
         x train, x test, y train, y test = train test split(x,y,test size=0.1)
         #To Training the model and Nearest nighbors K=5
         classifier = KNeighborsClassifier(n neighbors=5)
         classifier.fit(x train, y train)
         #To make predictions on our test data
         y pred=classifier.predict(x test)
         for i in range(len(y test)):
             print("Actual Class : {0} \text{\text{Predicted Class : {1}}".format(y test[i],y pred[i]))
         print('Classification Accuracy : ',classifier.score(x test,y test))
```

```
Label 1 : versicolor
 Label 2 : virginica
Actual Class: 0
                       Predicted Class: 0
Actual Class: 0
                       Predicted Class: 0
Actual Class: 0
                       Predicted Class: 0
Actual Class : 2
                       Predicted Class : 2
Actual Class: 0
                       Predicted Class: 0
Actual Class: 1
                       Predicted Class: 1
Actual Class : 2
                       Predicted Class : 2
Actual Class : 1
                       Predicted Class : 1
Actual Class: 1
                       Predicted Class: 1
Actual Class: 0
                       Predicted Class: 0
                       Predicted Class : 1
Actual Class: 1
Actual Class : 2
                       Predicted Class : 2
Actual Class : 2
                       Predicted Class: 2
Actual Class : 2
                       Predicted Class: 2
Actual Class : 1
                       Predicted Class: 1
```

Classification Accuracy: 1.0

Label 0 : setosa