```
In [6]: import cv2
import numpy as np
import pandas as pd
from sklearn.linear_model import LogisticRegression
from sklearn.neighbors import KNeighborsClassifier
from sklearn.tree import DecisionTreeClassifier
from sklearn.model_selection import train_test_split
from sklearn.metrics import classification_report
from sklearn.metrics import accuracy_score
data=pd.read_csv('iris.csv')
X=data.iloc[:,0:4]
y=data['species']
X_train, X_test, y_train, y_test=train_test_split(X, y)
clf=LogisticRegression()
clf.fit(X_train,y_train)
y_pred_train=clf.predict(X_train)
print(classification_report(y_train,y_pred_train))
print(accuracy_score(y_train,y_pred_train))
y_pred_test=clf.predict(X_test)
print(classification_report(y_test,y_pred_test))
print(accuracy_score(y_test,y_pred_test))
C:\Users\Saurabh singh\AppData\Local\Programs\Python\Python37-32\lib\site-packages\sklearn\li
near_model\logistic.py:432: FutureWarning: Default solver will be changed to 'lbfgs' in 0.22.
Specify a solver to silence this warning.
  FutureWarning)
C:\Users\Saurabh singh\AppData\Local\Programs\Python\Python37-32\lib\site-packages\sklearn\li
near_model\logistic.py:469: FutureWarning: Default multi_class will be changed to 'auto' in
0.22. Specify the multi_class option to silence this warning.
  "this warning.", FutureWarning)
              precision
                           recall f1-score
                                              support
      setosa
                   1.00
                             1.00
                                       1.00
                                                    32
  versicolor
                   1.00
                             0.90
                                       0.95
                                                    39
   virginica
                   0.91
                             1.00
                                       0.95
                                                    41
                                       0.96
                                                  112
    accuracy
   macro avq
                   0.97
                             0.97
                                       0.97
                                                  112
weighted avg
                   0.97
                             0.96
                                       0.96
                                                  112
0.9642857142857143
              precision
                           recall f1-score
                                              support
                   1.00
                             1.00
                                       1.00
                                                    18
      setosa
  versicolor
                   1.00
                             0.73
                                       0.84
                                                    11
                   0.75
   virginica
                             1.00
                                       0.86
                                                     9
    accuracy
                                       0.92
                                                    38
                   0.92
                             0.91
                                       0.90
                                                    38
   macro avg
weighted avg
                   0.94
                             0.92
                                       0.92
                                                    38
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0.9210526315789473