import matplotlib.pyplot as plt  
import pandas as pd  
from sklearn.datasets import load\_iris *# load\_iris*data\_b = load\_iris() *# lo*df = pd.DataFrame(data\_b.data, columns=data\_b.feature\_names)  
df['target'] = data\_b.target  
*# df['target']*print(df)  
print("Dataset Labels=", data\_b.target\_names)  
  
from sklearn.tree import DecisionTreeClassifier  
from sklearn import metrics  
from sklearn.model\_selection import train\_test\_split  
*# import numpy as np*from sklearn import tree  
X\_train, X\_test, Y\_train, y\_test = train\_test\_split(df[data\_b.feature\_names], df['target'], random\_state=1)  
print(X\_train)  
print(X\_test)  
print(Y\_train)  
print(y\_test)  
  
clf = DecisionTreeClassifier(max\_depth=5, random\_state=1, criterion='gini') *# 'gini'/'entropy'*clf.fit(X\_train, Y\_train)  
y\_pred = clf.predict(X\_test)  
print(y\_test, y\_pred)  
print("Accuracy: ", metrics.accuracy\_score(y\_test, y\_pred))