# -\*- coding: utf-8 -\*-

"""

Created on Thu Apr 19 00:31:27 2018

@author: neera

"""

#import libraries

import numpy as np

import matplotlib.pyplot as plt

import pandas as pd

from sklearn import tree

# importing our csv dataset

mydata=pd.read\_csv('classification\_problem\_full.csv')

X=mydata.iloc[:,[0,1,2]].values

y=mydata.iloc[:,[3]].values

# splitting data into training and testing data

from sklearn.cross\_validation import train\_test\_split

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X,y, test\_size=0.25, random\_state=0)

# Feature scaling

from sklearn.preprocessing import StandardScaler

sc=StandardScaler()

X\_train=sc.fit\_transform(X\_train)

X\_test=sc.transform(X\_test)

#Classification algorithm area

classifier=tree.DecisionTreeClassifier()

classifier.fit(X\_train,y\_train)

classifier.predict([[1,1,1]])

# get output of test results

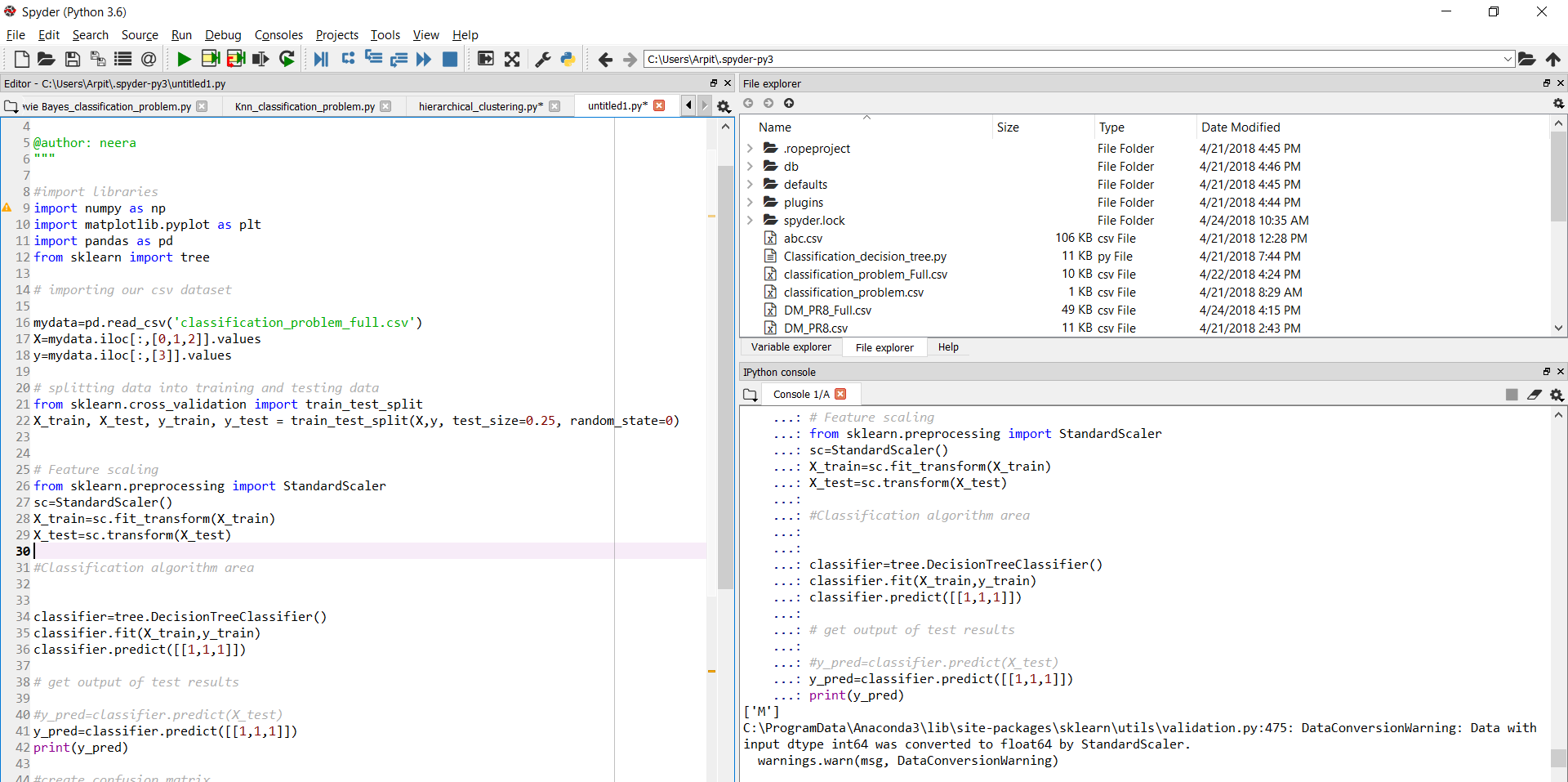
#y\_pred=classifier.predict(X\_test)

y\_pred=classifier.predict([[1,1,1]])

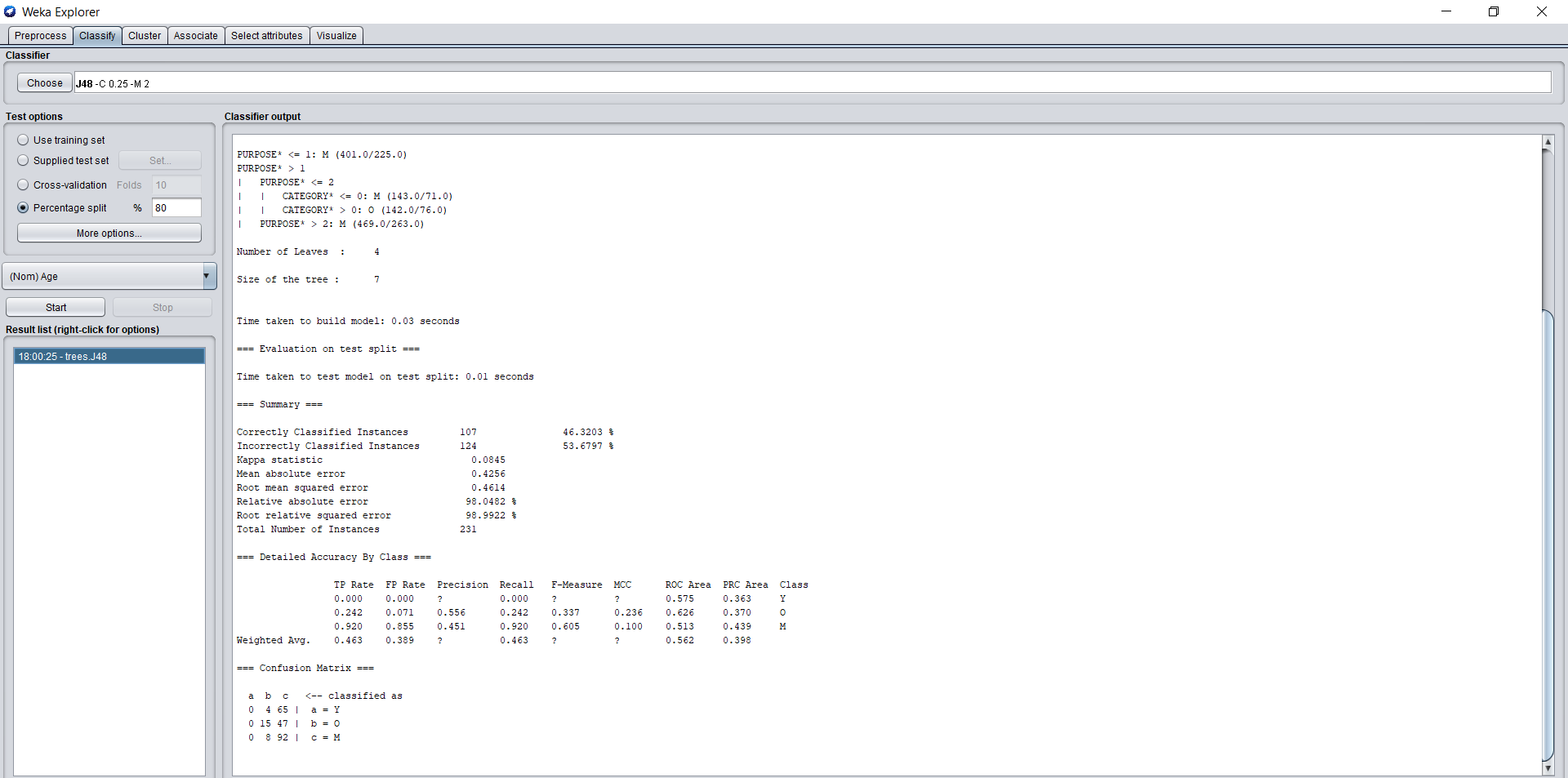
print(y\_pred)

-------------------------------------------------------------------------------------------------------------------------------------

**Output:**



With the help of **Weka:**



**Decision Tree:**

