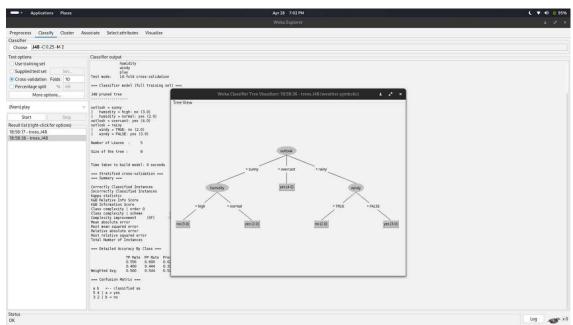
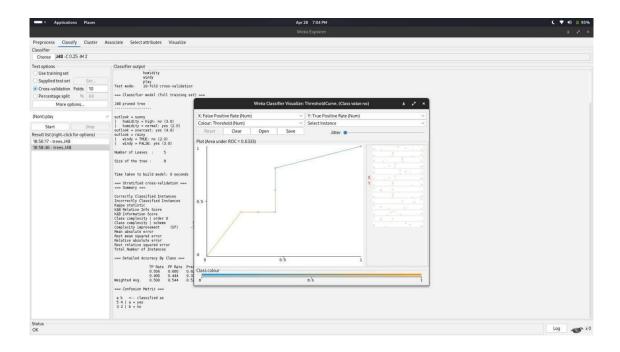
Name: Mohammad

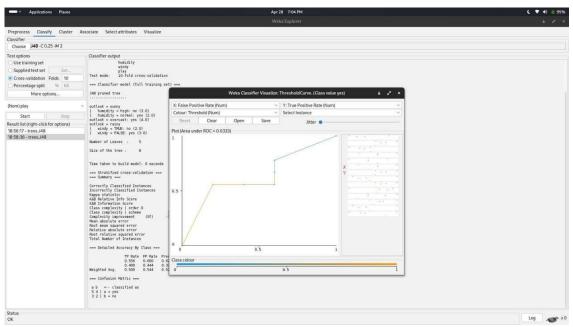
AsifReg no:

20214096Group: 6C

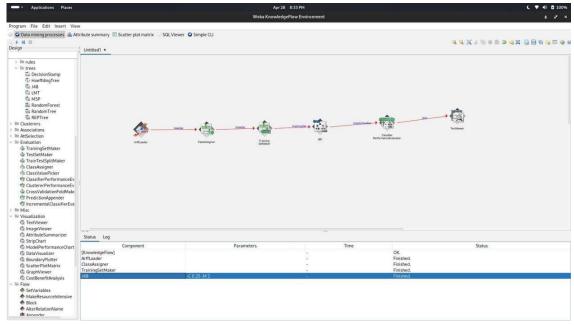








2.



3. Code:

from sklearn import datasets

from sklearn.model_selection import train_test_split

from sklearn.preprocessing import OneHotEncoder

from sklearn import tree

Load dataset

weather = datasets.load_weather_nominal()

Preprocess dataset

enc = OneHotEncoder()

enc.fit(weather.data)

X = enc.transform(weather.data)

Split dataset into training set and test set

X_train, X_test, y_train, y_test = train_test_split(X, weather.target, test_size=0.3)

Create Decision Tree classifer object

clf = tree.DecisionTreeClassifier()

Train Decision Tree Classifer

clf = clf.fit(X_train,y_train)

Predict the response for test dataset

y_pred = clf.predict(X_test)