


```
Out[87]: * LabelEncoder
LabelEncoder()

In [88]: #transforming target variable
y_le.fit_transform(y)
y
Out[88]: array([16, 16, 14, ..., 1, 16, 11])

In [89]: #train test split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size =0.25, random_state=1)

In [90]: #fitting the model
dct.fit(X_train,y_train)

Out[90]: * DecisionTreeClassifier
DecisionTreeClassifier()

In [92]: #predict
y_pred= dct.predict(X_test)
y_pred
Out[92]: array([16, 16, 16, ..., 16, 16, 16])

In [93]: #accuracy
print("Accuracy of the model: {}".format(accuracy_score(y_test,y_pred)*100))
Accuracy of the model: 99.06013897118234%
```

Comment

We can clearly see this model has an almost accuracy of 99.1% and can almost predict each and every class.