In [1]:
```
# Importing libraries
import numpy as np
from sklearn import datasets
from sklearn.ensemble import RandomForestClassifier
from sklearn.model_selection import train_test_split
```

In [2]:
```
data = datasets.load_wine()
X, y = np.array(data['data']),np.array(data['target'])
```

In [3]:
```
# Splitting to train and test dataset
X_train,X_test,y_train,y_test = train_test_split(X,y,te
st_size = 0.20, random_state = 42)
```

In [4]:
```
clf = RandomForestClassifier(max_depth=2, random_state=
0)
```

In [5]:
```
clf.fit(X_train,y_train)
```

Out[5]:
```
RandomForestClassifier(bootstrap=True, class_weight=None
, criterion='gini',
            max_depth=2, max_features='auto', max_leaf_n
odes=None,
            min_impurity_decrease=0.0, min_impurity_spli
t=None,
            min_samples_leaf=1, min_samples_split=2,
            min_weight_fraction_leaf=0.0, n_estimators=1
0, n_jobs=1,
            oob_score=False, random_state=0, verbose=0,
warm_start=False)
```

In [6]:
```
print("Train accuracy : ",clf.score(X_train,y_train))
```

```
Train accuracy :  0.9647887323943662
```

In [7]:
```
count = 0
for x,y in zip(X_test,y_test):
    if clf.predict([x])==y:
        count+=1
print("Test accuracy : ",count/len(y_test))
```

```
Test accuracy :  0.9166666666666666
```