In [2]:
```
import pandas as pd
import numpy as np
```

In [3]:
```
iris=pd.read_csv('C://Users/Gopi/Desktop/machine learning/csv files/iris.csv')
```

In [4]:
```
iris_setosa = iris.iloc[0:50,0:5]
iris_versicolor = iris.iloc[50:100,0:5]
iris_vergenica = iris.iloc[100:150,0:5]
```

In [5]:
```
df1 = pd.DataFrame(iris_setosa.iloc[0:25,0:5])
df2 = pd.DataFrame(iris_versicolor.iloc[0:25,0:5])
df3 = pd.DataFrame(iris_vergenica.iloc[0:25,0:5])
```

In [6]:
```
iris_train = pd.concat([df1,df2,df3])
X_train = iris_train.iloc[:,0:4]
y_train = iris_train.iloc[:,4]
```

In [7]:
```
df1 = pd.DataFrame(iris_setosa.iloc[25:50,0:5])
df2 = pd.DataFrame(iris_versicolor.iloc[25:50,0:5])
df3 = pd.DataFrame(iris_vergenica.iloc[25:50,0:5])
```

In [8]:
```
iris_test= pd.concat([df1,df2,df3])
X_test = iris_test.iloc[:,0:4]
y_test = iris_test.iloc[:,4]
```

In [21]:
```
from sklearn.ensemble import RandomForestClassifier
classifier = RandomForestClassifier(n_estimators = 70, criterion = 'entropy', random_state = 0)
classifier.fit(X_train, y_train)
y_pred = classifier.predict(X_test)
```

In [22]:
```
from sklearn.metrics import confusion_matrix,accuracy_score
Confusion_Matrix = confusion_matrix(y_test, y_pred)
Accuracy_Score = accuracy_score(y_test, y_pred)
```

In [23]:
```
print('CONFUSION MATRIX')
print(Confusion_Matrix)
print('ACCURACY SCORE')
print(Accuracy_Score)
```

```
CONFUSION MATRIX
[[25  0  0]
 [ 0 23  2]
 [ 0  2 23]]
ACCURACY SCORE
0.9466666666666667
```