In [1]:

```
from sklearn.tree import DecisionTreeClassifier
```

In [16]:

```
import numpy as np
```

In [17]:

```
from sklearn.datasets import load_iris
```

In [18]:

```
iris = load_iris()
```

In [19]:

```
from sklearn.model_selection import train_test_split
```

In [20]:

```
x_train, x_test, y_train, y_test=train_test_split(iris.data,iris.target,test_size=0.25)
```

In [21]:

```
dt=DecisionTreeClassifier(max_depth=30)
```

In [22]:

```
dt.fit(x_train, y_train)
```

Out[22]:

```
DecisionTreeClassifier(max_depth=30)
```

In [23]:

```
from sklearn.metrics import mean_squared_error
```

In [24]:

```
dt.score(x_test,y_test)
```

Out[24]:

```
0.9473684210526315
```

In [25]:

```
y_pred=dt.predict(x_test)
```

In [26]:

```
np.sqrt(mean_squared_error(y_test, y_pred))
```

Out[26]:

```
0.22941573387056177
```

In [ ]:

```

```