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Assignment No : 02 (ML)

Code:

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
```

Created on Thu Feb 11 14:22:28 2021

```
@author: prem
"""
```

```
import pandas as pd
import matplotlib.pyplot as plt
```

```
#reading Dataset
dataset=pd.read_csv("data.csv")
x=dataset.iloc[:,1:5]
y = dataset.iloc[:,5]
```

```
from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
x = x.apply(le.fit_transform)
```

```
from sklearn.tree import DecisionTreeClassifier
dt = DecisionTreeClassifier()
dt.fit(x,y)
```

```
y_pred=dt.predict([[2,1,0,0]])
print("Prediction:", y_pred[0])
```

```
from sklearn import tree
fig = plt.figure(figsize=(25,20))
tree.plot_tree(dt)
```

Output:



