## Decision Tree Regression

Importing the libraries

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

Importing the dataset

```
dataset = pd.read_csv('Position_Salaries.csv')
X = dataset.iloc[:, 1:-1].values
y = dataset.iloc[:, -1].values
```

▼ Training the Decision Tree Regression model on the whole dataset

Predicting a new result

```
regressor.predict([[6.5]])

☐→ array([150000.])
```

Visualising the Decision Tree Regression results (higher resolution)

```
X_grid=np.arange(min(X), max(X), 0.1)
X_grid=X_grid.reshape(len(X_grid),1)
```

```
plt.scatter(X,y,color='red')
plt.plot(X_grid,regressor.predict(X_grid),color='blue')
plt.title("Truth or Bluff (Decision Tree Regression)")
plt.xlabel("Position Level")
plt.ylabel("Salary")
plt.show()
```

