# **Decision Tree Regression**

### Importing the libraries

```
import numpy as np
In [0]:
        import matplotlib.pyplot as plt
        import pandas as pd
```

## Importing the dataset

```
In [0]: | 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

```
In [3]: from sklearn.tree import DecisionTreeRegressor
        regressor = DecisionTreeRegressor(random state = 0)
        regressor.fit(X, y)
Out[3]: DecisionTreeRegressor(ccp alpha=0.0, criterion='mse', max depth=None,
                              max features=None, max leaf nodes=None,
                              min impurity decrease=0.0, min impurity split=Non
        e,
                              min samples leaf=1, min samples_split=2,
                              min weight fraction leaf=0.0, presort='deprecate
        d',
                              random state=0, splitter='best')
```

### Predicting a new result

```
In [4]: regressor.predict([[6.5]])
Out[4]: array([150000.])
```

## Visualising the Decision Tree Regression results (higher resolution)

