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In [1]: # Decision Tree Regression
        # Importing the libraries
        import os
        import numpy as np
        import matplotlib.pyplot as plt
        import pandas as pd
In [2]: os.chdir("D:/My ML Simulations/My ML Work/Part 2 - Regression/Section 6 - Polynomial Regression")
In [3]: # Importing the dataset
        dataset = pd.read csv('Position Salaries.csv')
        X = dataset.iloc[:, 1:2].values
        y = dataset.iloc[:, 2].values
In [4]: # Splitting the dataset into the Training set and Test set
        """from sklearn.model_selection import train_test_split
        X train, X test, y train, y test = train test split(X, y, test size = 0.2, random state = 0)""
Out[4]: 'from sklearn.model selection import train test split\nX train, X test, y train, y test = train test split(X, y, test size = 0.
        2, random state = 0)'
In [5]: # Feature Scaling
        """from sklearn.preprocessing import StandardScaler
        sc_X = StandardScaler()
        X train = sc X.fit transform(X train)
        X test = sc X.transform(X test)
        sc y = StandardScaler()
        y train = sc y.fit transform(y train.reshape(-1,1))"""
Out[5]: 'from sklearn.preprocessing import StandardScaler\nsc X = StandardScaler()\nX train = sc X.fit transform(X train)\nX test = sc
        X.transform(X test) \setminus y = StandardScaler() \setminus y train = sc y.fit transform(y train.reshape(-1,1))'
In [6]: # Fitting Decision Tree Regression to the dataset
        from sklearn.tree import DecisionTreeRegressor
        regressor = DecisionTreeRegressor(random_state = 0)
        regressor.fit(X, y)
Out[6]: DecisionTreeRegressor(criterion='mse', max depth=None, max features=None,
                              max leaf nodes=None, min impurity decrease=0.0,
                              min impurity split=None, min samples leaf=1,
                              min samples split=2, min weight fraction leaf=0.0,
                              presort=False, random state=0, splitter='best')
In [7]: # Predicting a new result
        y_pred = regressor.predict([[6.5]])
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In [9]: # Visualising the Decision Tree Regression results (higher resolution)
X_grid = np.arange(min(X), max(X), 0.01)
X_grid = X_grid.reshape((len(X_grid), 1))
plt.scatter(X, y, color = 'green')
plt.plot(X_grid, regressor.predict(X_grid), color = 'red')
plt.title('Truth or Bluff (Decision Tree Regression)')
plt.xlabel('Position level')
plt.ylabel('Salary')
plt.show()
```

