```
Start coding or generate with AI.
```

Import Libraries

```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
from sklearn.ensemble import RandomForestRegressor
```

Importing the dataset

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

Training the Decision Tree Regression model on the whole dataset

```
rf = RandomForestRegressor(n_estimators=10, random_state=0)
rf.fit(X, y)
```

```
RandomForestRegressor
RandomForestRegressor(n_estimators=10, random_state=0)
```

Predicting a new result

```
predicting_new_result = rf.predict([[6.5]])
print(predicting_new_result)
```

```
[167000.]
```

Visualising the Decision Tree Regression

```
x_grid = np.arange(min(X), max(X), 0.01)
x_grid = x_grid.reshape((len(x_grid), 1))
plt.scatter(X, y, color = 'red')
plt.plot(x_grid, rf.predict(x_grid), color = 'blue')
plt.title('Truth or Bluff (Decision Tree Regression)')
plt.xlabel('Position level')
plt.ylabel('Salary')
plt.show()
```

```
<ipython-input-6-3f1755394b42>:1: DeprecationWarning: Conversion of an array with ndim > 0 to a scalar is deprecated, and will error in
  x_grid = np.arange(min(X), max(X), 0.01)
```