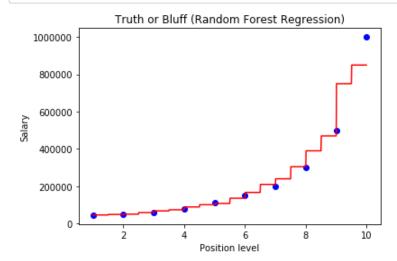
```
In [1]: # Random Forest Regression
                      # Importing the libraries
                      import os
                      import numpy as np
                      import matplotlib.pyplot as plt
                      import pandas as pd
In [3]: os.chdir("D:/My ML Simulations/My ML Work/Part 2 - Regression/Section 6 - Polynomial Regression")
In [4]: # Importing the dataset
                      dataset = pd.read csv('Position Salaries.csv')
                      X = dataset.iloc[:, 1:2].values
                     y = dataset.iloc[:, 2].values
In [5]: # Importing the dataset
                      dataset = pd.read csv('Position Salaries.csv')
                     X = dataset.iloc[:, 1:2].values
                     y = dataset.iloc[:, 2].values
In [7]: | # 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[7]: '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 [8]: # 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[8]: 'from sklearn.preprocessing import StandardScaler\nsc_X = StandardScaler()\nX_train = sc_X.fit_transform(X_train)\nX_test = sc_
                     X.transform(X test) \le y = StandardScaler() \le y = StandardScaler()
```

```
In [10]: | # Fitting Random Forest Regression to the dataset
         from sklearn.ensemble import RandomForestRegressor
         regressor = RandomForestRegressor(n estimators = 10, random state = 0)
         regressor.fit(X, y)
Out[10]: RandomForestRegressor(bootstrap=True, criterion='mse', max depth=None,
                               max_features='auto', 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, n estimators=10,
                               n jobs=None, oob score=False, random state=0, verbose=0,
                               warm_start=False)
In [21]: # Predicting a new result
         y pred = regressor.predict([[6.5]])
In [22]: # Visualising the Random Forest 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 = 'blue')
         plt.plot(X grid, regressor.predict(X grid), color = 'red')
         plt.title('Truth or Bluff (Random Forest Regression)')
```



plt.xlabel('Position level')

plt.ylabel('Salary')

plt.show()

In []: