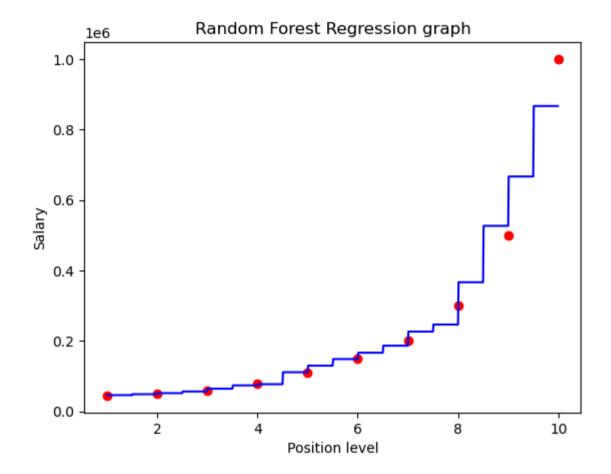
RFR - Random Forest Regression Algorithm

```
In [2]: #importing libraries
        import numpy as np
        import pandas as pd
        import matplotlib.pyplot as plt
In [3]: #importing the dataset
        dataset = pd.read csv(r"C:\Users\Jan Saida\Downloads\emp sal.csv")
        dataset
Out[3]:
                     Position Level
                                      Salary
        0 Jr Software Engineer
                                      45000
        1 Sr Software Engineer
                                      50000
         2
                    Team Lead
                                      60000
                     Manager
                                      80000
         3
         4
                   Sr manager
                                     110000
        5
               Region Manager
                                     150000
         6
                         AVP
                                     200000
                                     300000
        7
                          VP
         8
                         CTO
                                     500000
                                10 1000000
                        CEO
In [4]: x=dataset.iloc[:, 1:2].values #independent varianble
        y=dataset.iloc[:,2].values
                                       #dependent varianble
```

```
In [5]: x
Out[5]: array([[ 1],
                [2],
                [ 3],
                [6],
                [7],
                [8],
                [ 9],
                [10]], dtype=int64)
In [6]: y
Out[6]: array([ 45000,
                          50000,
                                   60000,
                                            80000, 110000, 150000,
                                                                      200000,
                         500000, 1000000], dtype=int64)
                 300000,
In [7]: # Random foreest Regression model
         from sklearn.ensemble import RandomForestRegressor
In [8]: forest regressor=RandomForestRegressor(n estimators=15)
         forest_regressor
Out[8]:
                 RandomForestRegressor
         RandomForestRegressor(n_estimators=15)
        forest_regressor.fit(x,y)
Out[9]:
                 RandomForestRegressor
         RandomForestRegressor(n_estimators=15)
In [10]: # Random Forest regressor Predictions
```

operation. (Deprecated NumPy 1.25.)
x grid=np.arange(min(x),max(x),0.01)



In []: