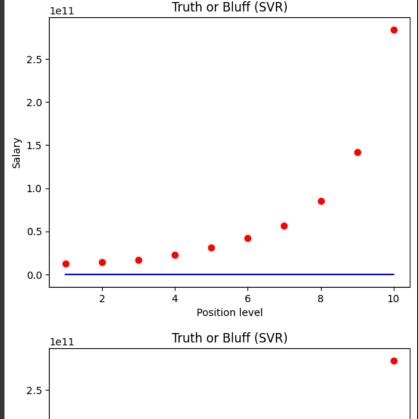
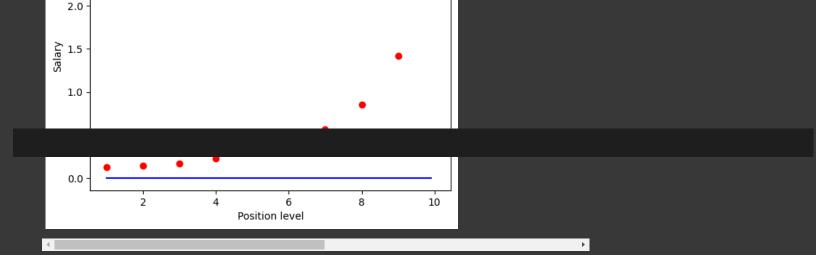
```
import matplotlib.pyplot as plt
import pandas as pd
dataset = pd.read\_csv(`https://raw.githubusercontent.com/amppmann/Machine-Learning-SourceCodes/main/Position\_Salaries.csv')
x = dataset.iloc[:, 1:-1].values
y = dataset.iloc[:, -1].values
print("\nx : ",x)
print("\ny : ",y)
y = y.reshape(len(y),1)
print("\nReshaped y : ",y)
from sklearn.preprocessing import StandardScaler
sc_x = StandardScaler()
sc_y = StandardScaler()
X = sc_x.fit_transform(x)
Y = sc_y.fit_transform(y)
print("Transformed X : ",X)
print("Transformed Y : ",Y)
from sklearn.svm import SVR
regressor = SVR(kernel = 'rbf')
regressor.fit(X, Y)
print("New Value")
print(sc_y.inverse_transform(regressor.predict(sc_x.transform([[6.5]])).reshape(-1,1)))
# Visualising the SVR results
plt.scatter(sc_x.inverse_transform(X), sc_y.inverse_transform(y).reshape(-1,1), color = 'red')
plt.plot(sc_x.inverse_transform(X), sc_y.inverse_transform(regressor.predict(X).reshape(-1,1)), color = 'blue')
plt.title('Truth or Bluff (SVR)')
plt.xlabel('Position level')
plt.ylabel('Salary')
plt.show()
# Visualising the SVR results (for higher resolution and smoother curve)
X_{grid} = np.arange(min(sc_x.inverse_transform(X)), max(sc_x.inverse_transform(X)), 0.1)
X_{grid} = X_{grid.reshape((len(X_{grid}), 1))}
plt.scatter(sc_x.inverse_transform(X), sc_y.inverse_transform(y).reshape(-1,1), color = 'red')
plt.plot(X_grid, sc_y.inverse_transform(regressor.predict(sc_x.transform(X_grid)).reshape(-1,1)), color = 'blue')
plt.title('Truth or Bluff (SVR)')
plt.xlabel('Position level')
plt.ylabel('Salary')
plt.show()
```

import numpy as np





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