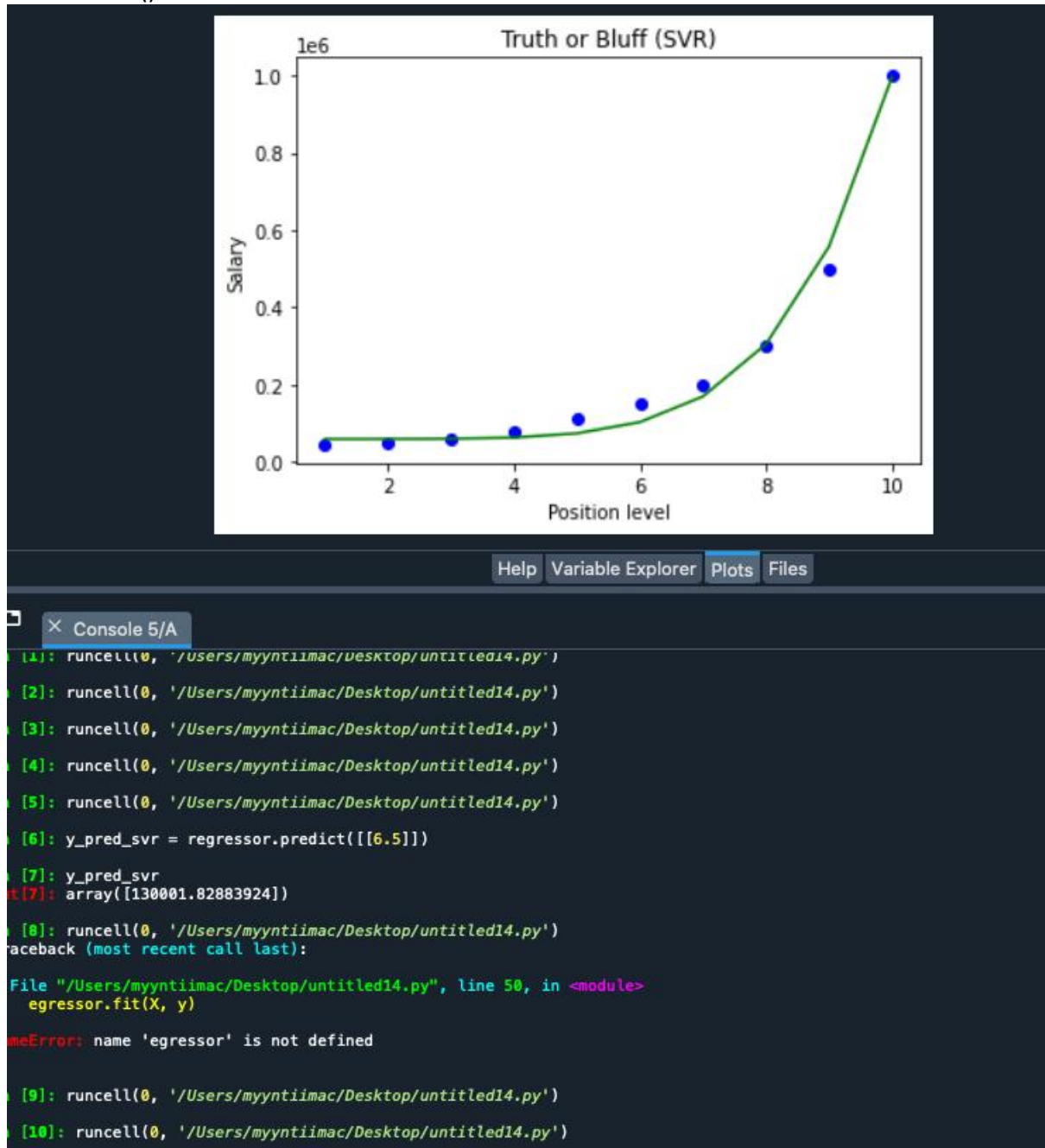
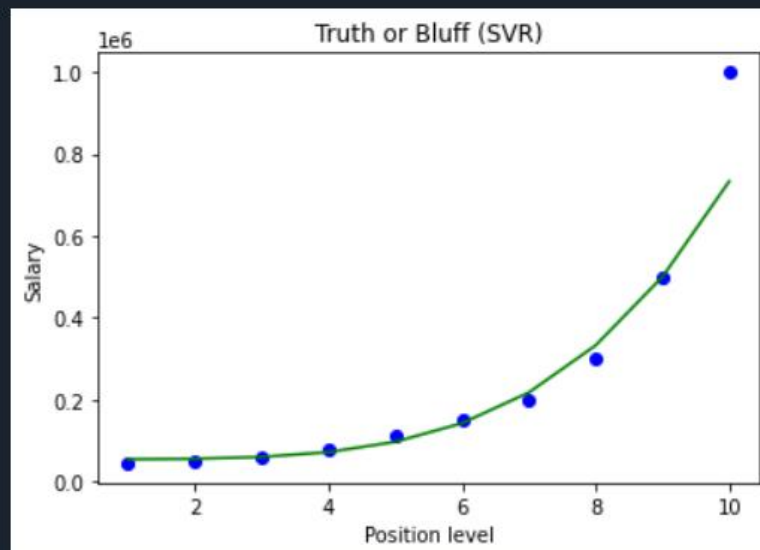


Default SVR()



```
regressor = SVR(kernel='sigmoid', degree=5, gamma='auto')
regressor.fit(X, y)
# check the model by prediction at level 6.5
y_pred_svr = regressor.predict([[6.5]])
#this manipulation predict 175708,
```



```
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X Console 5/A

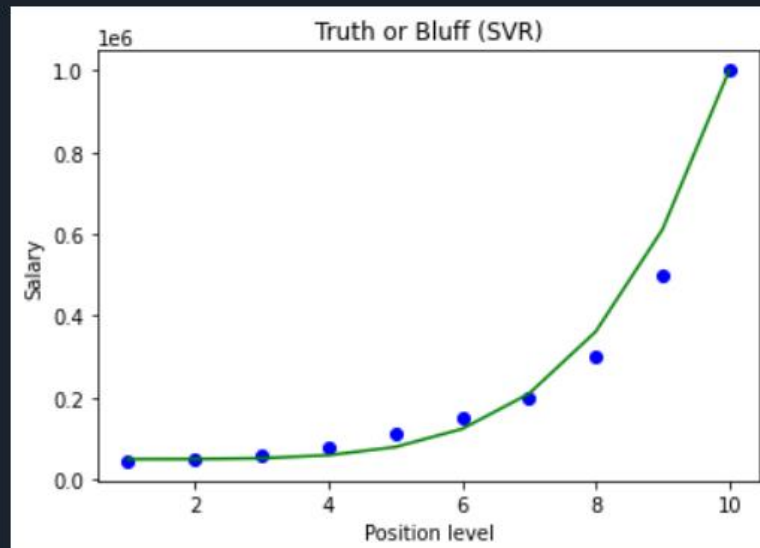
In [6]: y_pred_svr = regressor.predict([[6.5]])
In [7]: y_pred_svr
Out[7]: array([130001.82883924])

In [8]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
Traceback (most recent call last):
  File "/Users/myyntiimac/Desktop/untitled14.py", line 50, in <module>
    regressor.fit(X, y)
NameError: name 'regressor' is not defined

In [9]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
In [10]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
In [11]: y_pred_svr = regressor.predict([[6.5]])
In [12]: y_pred_svr
Out[12]: array([175707.67298155])

In [13]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
```

With degree 6



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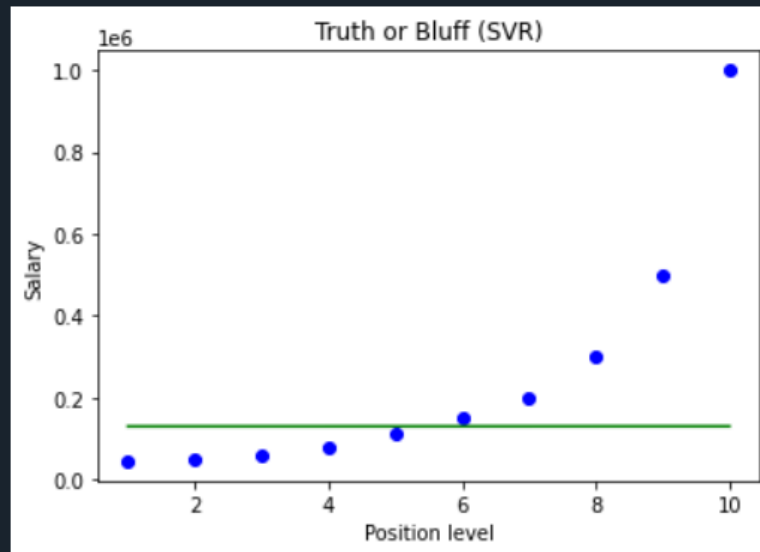
```
In [11]: y_pred_svr = regressor.predict([[6.5]])  
In [12]: y_pred_svr  
Out[12]: array([175707.67298155])  
In [13]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
```

Warning

Figures now render in the Plots pane by default. To make them also appear inline in the Console, uncheck "Mute I Plotting" under the Plots pane options menu.

```
In [14]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')  
In [15]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')  
In [16]: y_pred_svr = regressor.predict([[6.5]])  
In [17]: y_pred_svr  
Out[17]: array([159973.68854139])  
In [18]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
```

Change kernel :Linear



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```
Console 5/A
In [25]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
In [26]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
In [27]: y_pred_svr = regressor.predict([[6.5]])
In [28]: y_pred_svr
Out[28]: array([130025.])
In [29]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
In [30]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
In [31]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
In [32]: y_pred_svr = regressor.predict([[6.5]])
In [33]: y_pred_svr
Out[33]: array([130025.])
In [34]: runcell(0, '/Users/myyntiimac/Desktop/untitled14.py')
In [35]:
```

With kernel=precomputed , need input converted to square matrix