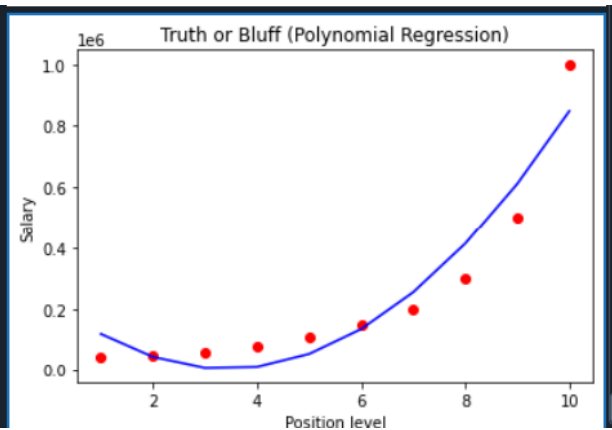
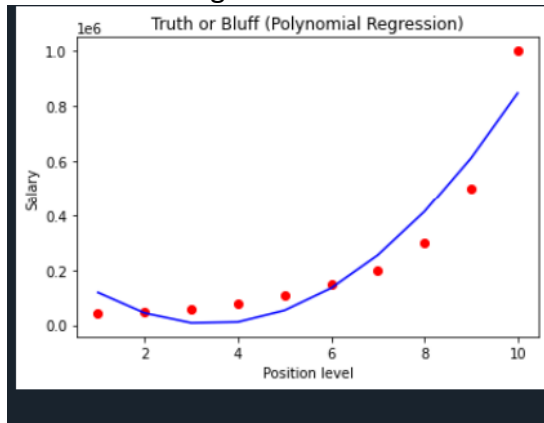
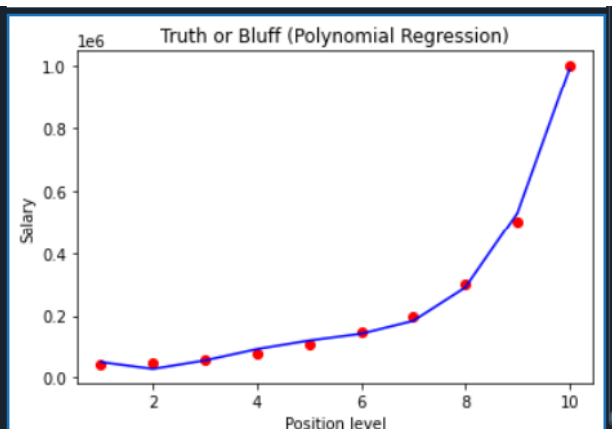
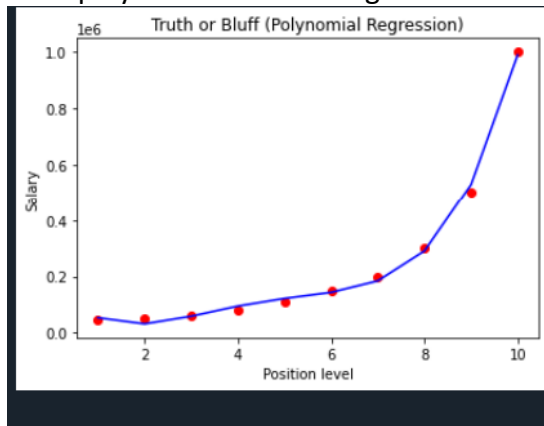


The output of Linear model, Polynomial model , optimizing polynomial with degree change with salary data , And compare there prediction.

With default degree



With polynomial feature degree=4



#Predicted

```
In [34]: lin_reg.predict([[6.5]])
Out[34]: array([330378.78787879])

In [35]: runcell(0, '/Users/myyntiimac/Desktop/untitled12.py')
Traceback (most recent call last):

  File "/Users/myyntiimac/Desktop/untitled12.py", line 114, in <module>
    lin_reg_3.predict(poly_reg1.fit_transform([[6.5]]))
NameError: name 'lin_reg_3' is not defined

In [36]: runcell(0, '/Users/myyntiimac/Desktop/untitled12.py')

In [37]: lin_reg3.predict(poly_reg1.fit_transform([[6.5]]))
Out[37]: array([158862.45265153])

In [38]: runcell(0, '/Users/myyntiimac/Desktop/untitled12.py')

In [39]: lin_reg3.predict(poly_reg1.fit_transform([[12]]))
Out[39]: array([3035984.84848488])
```

value by simple linear and optimized polynomial model