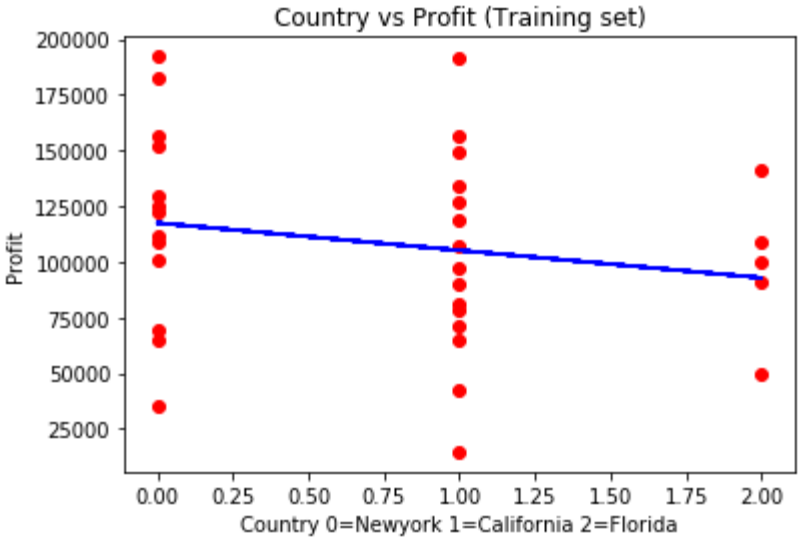
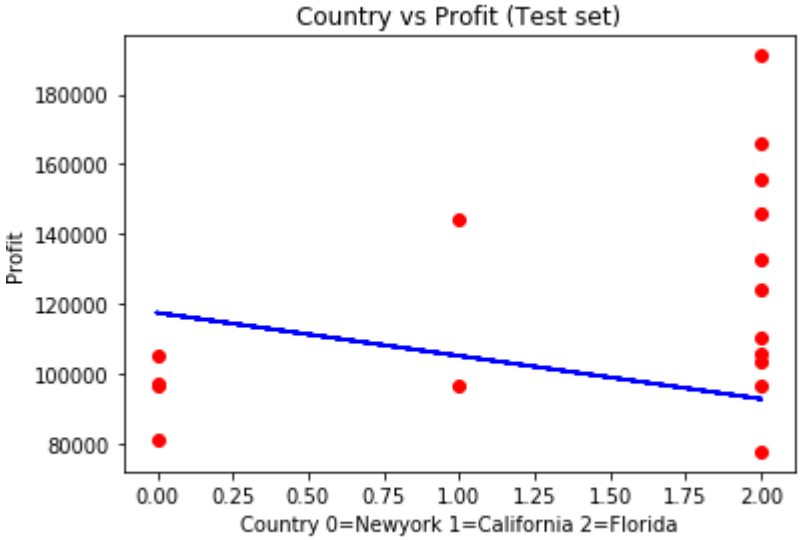
Q1

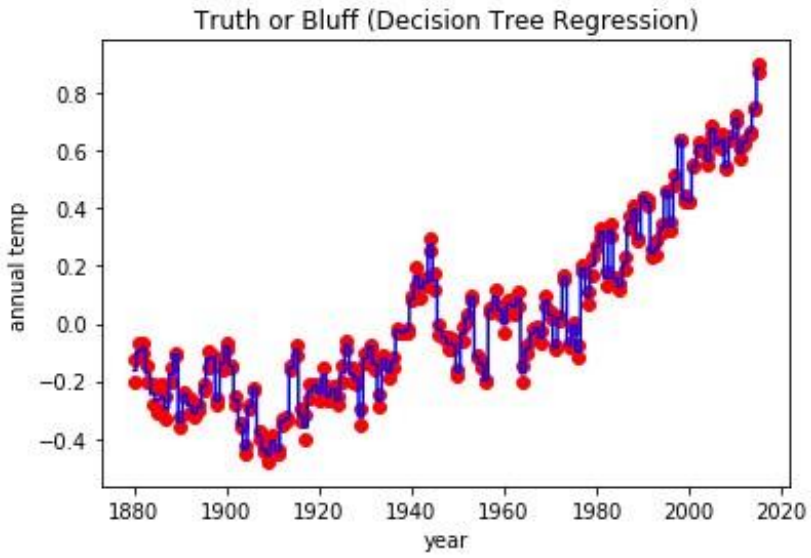




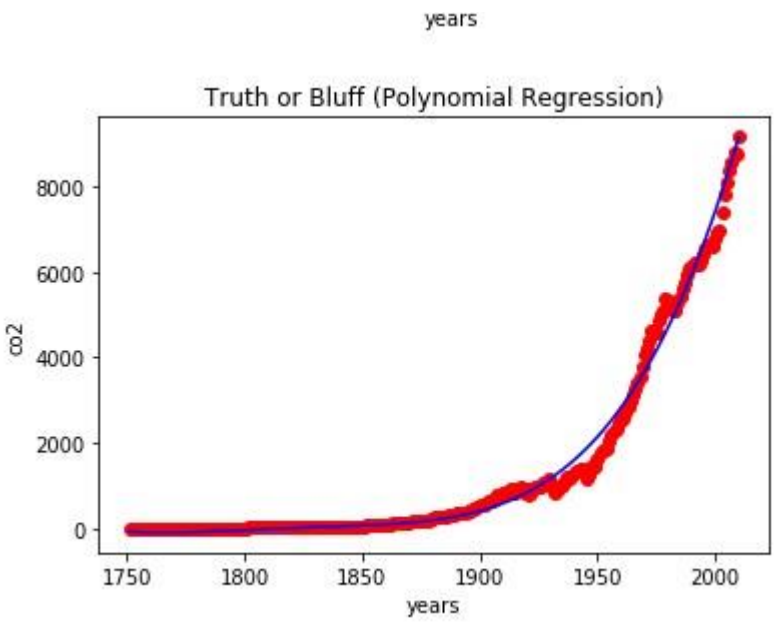

```
n [26]: (NewYork<California<Florida)
```

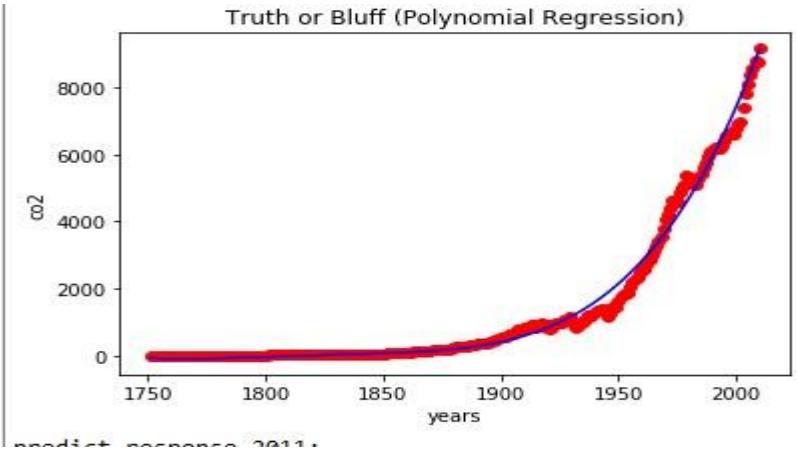
Q2

```
Regression/1 - Simple Linear Regression')
predict response 2016:
[0.8845]
predict response 2017:
[0.8845]
```



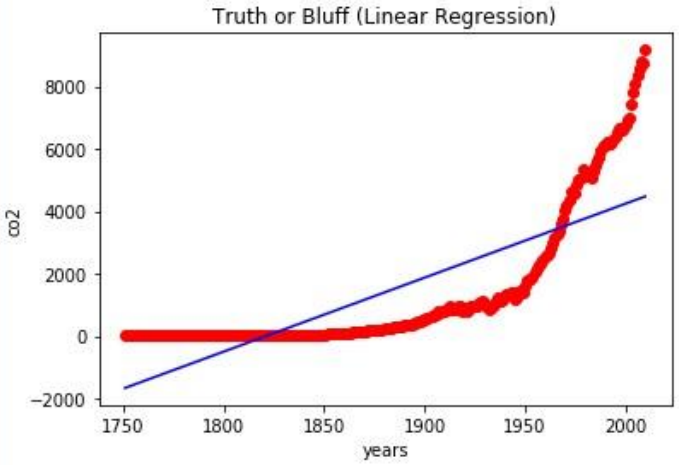
Q3






```
predict response 2011:
[[4494.86418176]]
predict response 2012:
[[4518.55824859]]
predict response 2013:
[[4542.25231541]]
predict response polynomial 2011:
[[9340.0157637]]
predict response polynomial 2012:
[[9532.40664323]]
predict response polynomial 2013:
[[9727.79484826]]
```

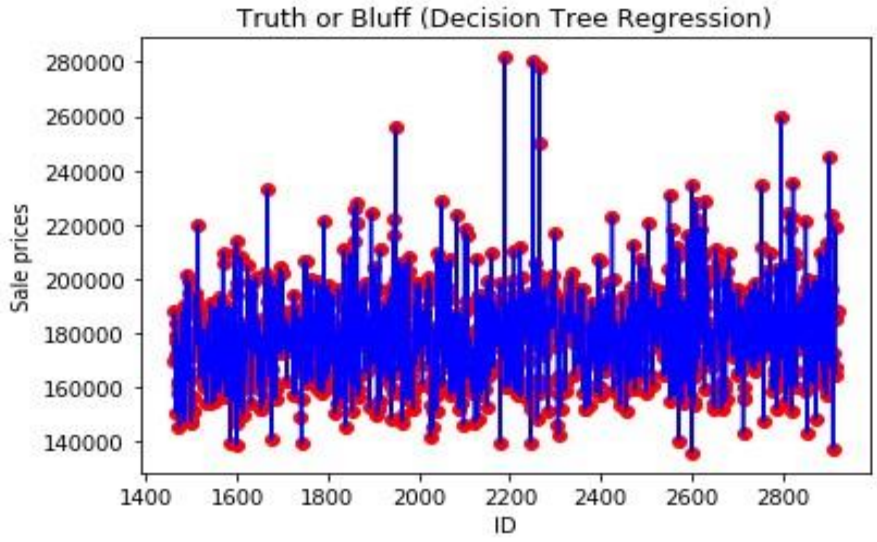
```
In [14]: runfile('C:/Users/IKhan/Desktop/ML/NCAI ML Course/Par
Linear Regression/Q3.py', wdir='C:/Users/IKhan/Desktop/ML/NCAI
Regression/1 - Simple Linear Regression')
```



Q4

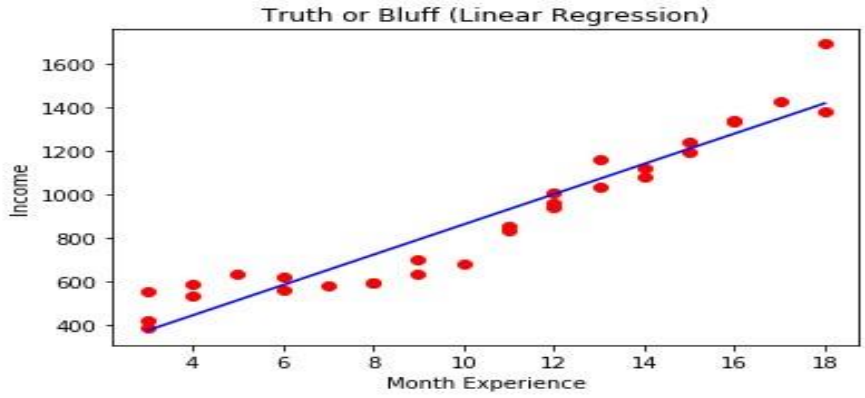
```
predict response 2925:
[187741.86665748]
```

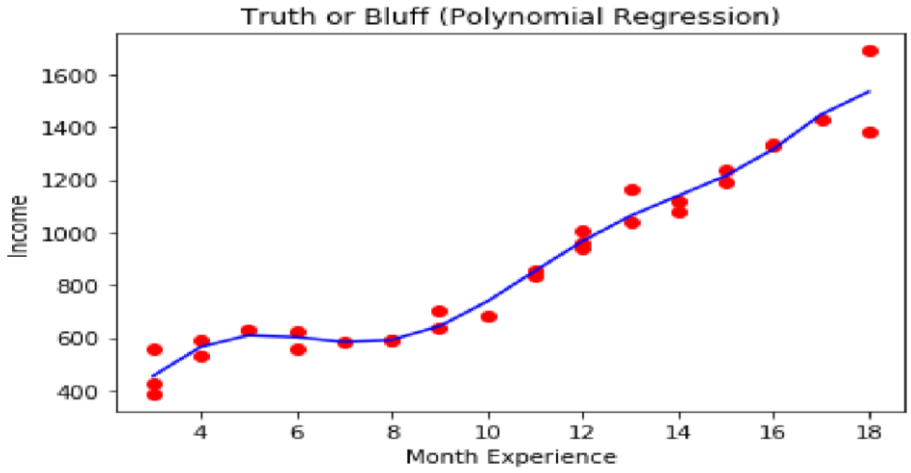
Q5

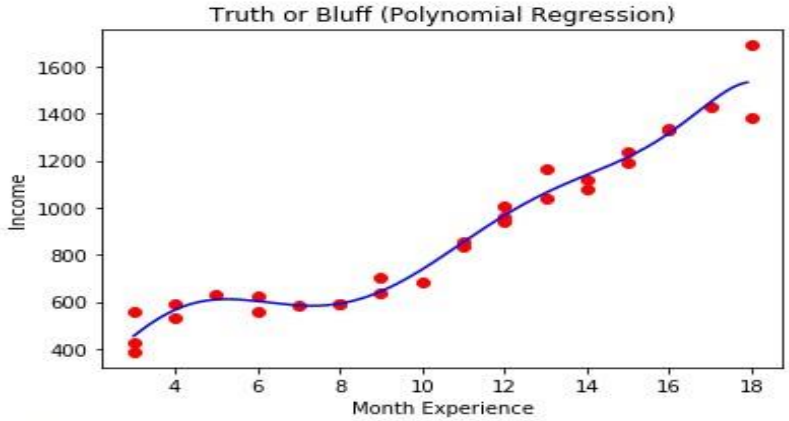


Q5

```
In [18]: runfile('C:/Users/IKhan/Desktop/ML/NCAI ML Course/
Linear Regression/Q5.py', wdir='C:/Users/IKhan/Desktop/ML/N
Regression/1 - Simple Linear Regression')
```








```
predict response 6.5:
[619.12058583]
predict response polynomial 6.5:
[592.13260895]
```