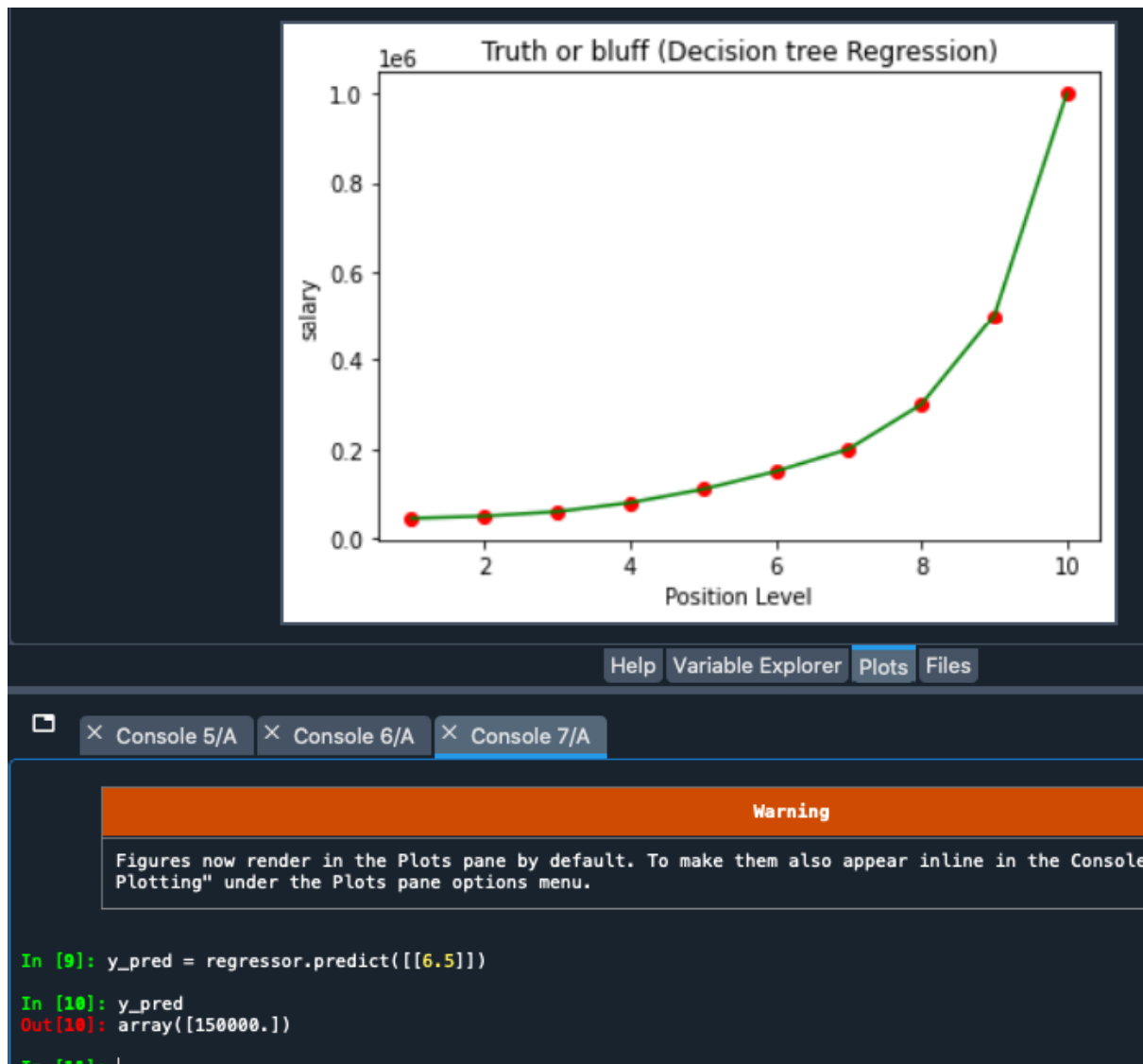Dicision Tree
Parameter- Parameter criterion = 'friedman_mse', splitter = 'random', we find predicted
value at 6.5 is 15000

Parameter tuning
parameter tuning with (criterion = 'mae',splitter = 'best') , its same value prdiction
#Lets try with more parameter, (criterion='mae', splitter='best', max_depth'= None,)is same
#(criterion = 'mse',splitter = 'random',max_depth = None) its predict 200000, not expected

Truth or bluff (Decision tree Regression)

```
n [33]: y_pred = regressor.predict([[6.5]])

n [34]: y_pred
ut[34]: array([150000.])

n [35]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Randor

n [36]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Randor

n [37]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Randor

n [38]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Randor

n [39]: y_pred = regressor.predict([[6.5]])

n [40]: y_pred
ut[40]: array([150000.])

n [41]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Randor

n [42]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Randor

n [43]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Randor

n [44]: y_pred = regressor.predict([[6.5]])

n [45]: y_pred
ut[45]: array([200000.])
```

Random Forest:
Random Forest where all the parameter is same but only difference is Tree number , by deafult tree no or n-estimator 300, but you can put range 100 to 10000

#Insight:with default estimator 300 , the model predict 160333, it can be optimized and prediced line didnot capture all d.point
#with tree no decreasing-200, its predict 159650
#Lets try in crease tree no 500- its again 160 k

#with 100 tree, 158300
#this model best prediction in tree no default and 500 , is 160k

Truth or bluff (Decision tree Regression)

n [45]: y_pred
ut[45]: array([200000.])

n [46]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Random

n [47]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Random

n [48]: runcell(0, '/Users/myyntiimac/Desktop/Naresh it data/2.DECISION TREE/Dicission Tree and Random

n [49]: y_predRF
ut[49]: array([160333.33333333])

Insight: so comparing both DT and RF we can conclude that RF (160k)better predictor than DT(150k)