Visualising the Training & Testing set results

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Visualising the Training set results

```
#Red points-->real salaries || Blue point-->predicted salary
plt.scatter(X_train, y_train, color = 'red') #x_train,y_train represents real sal
ary(red) and then we pass the parameter & plt is pyplot here
plt.plot(X_train, regressor.predict(X_train), color = 'blue') # here by writing (
X_train, regressor.predict(X_train)), we are comparing X_train with X_train predi
cted values
# It will Simply do the difference between observed and the modelled and plot blu
e line
# To get the best fitting line, what is done is you take each one of the blue lin
e or those distances and square them and then you take the sum of those squares.
plt.title('Salary vs Experience (Training Set)')
plt.xlabel('Years of Experience')
plt.ylabel('Salary')
```

Visualising the Test set results

```
plt.scatter(X_test, y_test, color = 'red')
plt.plot(X_train, regressor.predict(X_train)) #If we write "plt.plot(X_test, regr
essor.predict(X_test))" then also the output will be same because-->
#-->
Because the regression line we get is resulting from the equation and therefore,
the predicted salary of the test set will be on the same -->
#-->
regression line as the predicted salaries of the training set... So, either of th
at can be written
plt.title('Salary vs Experience (Testing Set)')
plt.xlabel('Years of Experience')
plt.ylabel('Salary')
```

```
plt.show()
```


Salary vs Experience (Testing Set)
120000
100000
80000
60000
40000
Salary
2
4
6
8
10
Years of Experience