```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

Importing datset

Using pandas read the data in csv

```
# making the X and Y variables for the plotting using the iloc function. iloc will select the colu
dataset = pd.read_csv("salary_data.csv")
X= dataset.iloc[:,: -1].values # .values is used to creat return the numpy representation of the D
Y=dataset.iloc[:,1].values
```

Splitting of the data

- Training
- Testing # For this we will sklearn library

```
In [ ]:
    from sklearn.model_selection import train_test_split
    X_train, X_test, y_train, y_test= train_test_split(X,Y,test_size=1/3,random_state=0)
```

Data has been Split Now

Regression model development

- Import the Linear regression model
- Create a variable and call the Linear regression model in it
- Fit the data in the Linear Regerssor model via its variable Regerssor

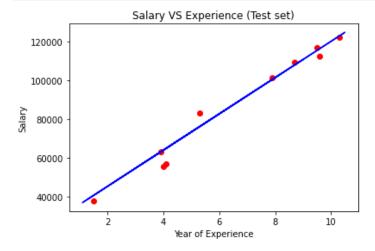
```
In []: # Data fitting
    from sklearn.linear_model import LinearRegression
    regressor= LinearRegression()
    regressor.fit(X_train, y_train)

Out[]: LinearRegression()

In []: # Now Visualizing the training set
    plt.scatter(X_train,y_train,color="green")
    plt.plot(X_train,regressor.predict(X_train),color="blue")# Means plot the predicted and the X_
    plt.title('Salary VS Experience (Training set)')
    plt.xlabel('Year of Experience')
    plt.ylabel('Salary')
    plt.show()
```



```
In []:  # Now Visualizing the testing set
plt.scatter(X_test,y_test,color="red")
plt.plot(X_train,regressor.predict(X_train),color="blue")# Means plot the predicted and the X_
plt.title('Salary VS Experience (Test set)')
plt.xlabel('Year of Experience')
plt.ylabel('Salary')
plt.show()
```



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