```
import pandas as pd
import matplotlib.pyplot  as mtplt
import numpy as np
data= pd.read_csv ("/content/drive/MyDrive/Colab Notebooks/Salary_Data.csv")
```

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

```
x = data.iloc[:,:-1].values
y = data .iloc[:,1].values
print(data.iloc [:,:-1])
```

```
    YearsExperience
0               1.1
1               1.3
2               1.5
3               2.0
4               2.2
5               2.9
6               3.0
7               3.2
8               3.2
9               3.7
10              3.9
11              4.0
12              4.0
13              4.1
14              4.5
15              4.9
16              5.1
17              5.3
18              5.9
19              6.0
20              6.8
21              7.1
22              7.9
23              8.2
24              8.7
25              9.0
26              9.5
27              9.6
28             10.3
29             10.5
```

```
from sklearn.model_selection import train_test_split
x_train ,x_test ,y_train ,y_test= train_test_split(x,y,test_size=0.25,random_state=0)
```

```
from sklearn.preprocessing import StandardScaler
scaler = StandardScaler()
```

```
x_train = scaler.fit_transform(x_train)
x_test = scaler.fit_transform(x_test)
```

```
from sklearn.linear_model import LinearRegression
reg = LinearRegression()
reg.fit(x_train , y_train)
```

```
LinearRegression
LinearRegression()
```

```
y_pre = reg.predict(x_train)
y_pre
# y_pred = rev
```

```
array([ 76699.15692405, 101086.40420311,  54187.85174338,  74823.21482566,
        57001.76489096,  69195.38853049, 103900.31735069,  90768.72266197,
        39180.31495627, 125473.65148217,  55125.82279258,  47622.05439902,
        82326.98321922,  83264.95426841,  61691.62013694,  57001.76489096,
       111404.08574425,  45746.11230063,  37304.37285788,  93582.63580955,
        72947.27272727,  64505.53328452])
```

```
mtplt.scatter(x_train, y_train , color = "green")
mtplt.plot(x_train , y_pre , color = "red")
mtplt.title("salary vs experience ")
mtplt.xlabel("yers of  experience")
mtplt.ylabel(" salary of Rupees")
mtplt.show()
```