

```
import pandas as pd
d=pd.read_csv('/content/drive/MyDrive/Salary_Data.csv')
print(d)
```

	YearsExperience	Salary
0	1.1	39343.0
1	1.3	46205.0
2	1.5	37731.0
3	2.0	43525.0
4	2.2	39891.0
5	2.9	56642.0
6	3.0	60150.0
7	3.2	54445.0
8	3.2	64445.0
9	3.7	57189.0
10	3.9	63218.0
11	4.0	55794.0
12	4.0	56957.0
13	4.1	57081.0
14	4.5	61111.0
15	4.9	67938.0
16	5.1	66029.0
17	5.3	83088.0
18	5.9	81363.0
19	6.0	93940.0
20	6.8	91738.0
21	7.1	98273.0
22	7.9	101302.0
23	8.2	113812.0
24	8.7	109431.0
25	9.0	105582.0
26	9.5	116969.0
27	9.6	112635.0
28	10.3	122391.0
29	10.5	121872.0

```
x=d.iloc[:,0:1]
y=d.iloc[:,1:2]
```

```
from sklearn.model_selection import train_test_split
```

```
print(x.shape)
x_train,x_test,y_train,y_test=train_test_split(x,y,random_state=True,test_size=0.10)
```

```
(30, 1)
```

```
from sklearn.linear_model import LinearRegression
```

```
lr=LinearRegression()
```

```
mm=lr.fit(x_train,y_train)
```

```
yp=mm.predict(x_test)
```

```
print(yp)
```

```
[[75389.2962963 ]
 [92329.11079971]
 [62213.88501586]]
```

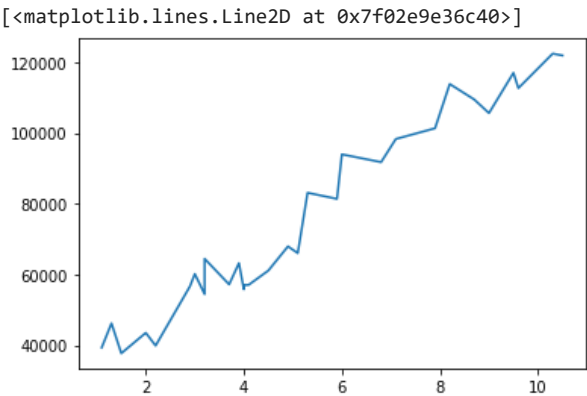
```
from sklearn.metrics import mean_squared_error
print(mean_squared_error(yp,y_test))
```

```
31869368.148030903
```

```
from matplotlib import pyplot as plt
```

```
x=d['YearsExperience']
y=d['Salary']
```

```
pt.plot(x,y)
```



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