

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

df=pd.read_csv('/content/Salary_Data.csv')

df.head()
```

```
x=df.drop(['Salary'],axis=1).values
```

```
x
```

```
array([[ 1.1],
       [ 1.3],
       [ 1.5],
       [ 2. ],
       [ 2.2],
       [ 2.9],
       [ 3. ],
       [ 3.2],
       [ 3.2],
       [ 3.7],
       [ 3.9],
       [ 4. ],
       [ 4. ],
       [ 4.1],
       [ 4.5],
       [ 4.9],
       [ 5.1],
       [ 5.3],
       [ 5.9],
       [ 6. ],
       [ 6.8],
       [ 7.1],
       [ 7.9],
       [ 8.2],
```

```
[ 8.7],
[ 9. ],
[ 9.5],
[ 9.6],
[10.3],
[10.5]])
```

```
y=df['Salary'].values
```

```
y
```

```
array([ 39343., 46205., 37731., 43525., 39891., 56642., 60150.,
        54445., 64445., 57189., 63218., 55794., 56957., 57081.,
        61111., 67938., 66029., 83088., 81363., 93940., 91738.,
        98273., 101302., 113812., 109431., 105582., 116969., 112635.,
        122391., 121872.])
```

```
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.30,random_stat
```

```
from sklearn.linear_model import LinearRegression
linear=LinearRegression()
```

```
linear.fit(x_train,y_train)
```

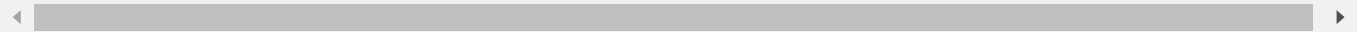
```
LinearRegression()
```

```
pred=linear.predict(x_test)
```

```
from sklearn.metrics import accuracy_score
```

```
print("Accuracy score",y_test)
```

```
Accuracy score [ 37731. 122391. 57081. 63218. 116969. 109431. 112635. 55794. 83088.]
```

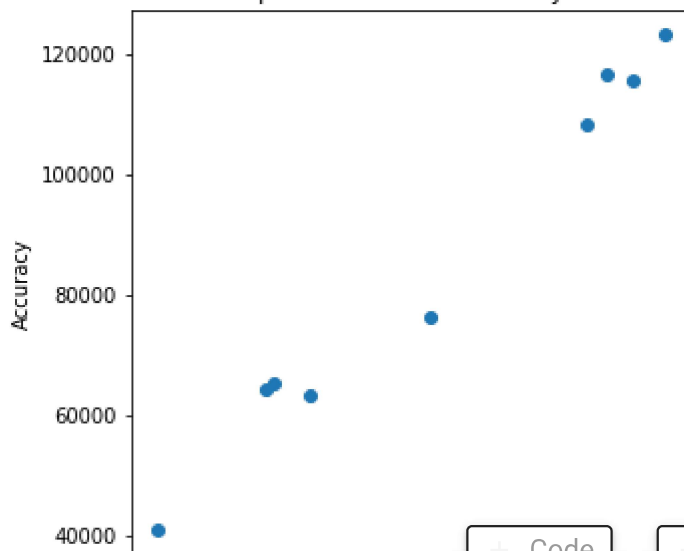


```
plt.figure(figsize=(5,5))
plt.scatter(y_test,pred)
plt.title("performance vs Accuracy")
plt.xlabel("Performance")
plt.ylabel("Accuracy")
```



```
Text(0, 0.5, 'Accuracy')
```

performance vs Accuracy



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