import require library

```
In [1]: 

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

import the dataset

Split the data to indipendent variable

Split the data to dependent variable

As dependent variable is continue that regression algorithm

As in the data set we have 2 attributes we slr algorithm

split the data to 80-20%

```
In [8]: ▶ from sklearn.model_selection import train_test_split
```

we called simple linear regression algoriytm from sklearm framework

```
In [11]: ▶ from sklearn.linear_model import LinearRegression
```

```
In [14]: ▶ regressor = LinearRegression()
```

we built simple linear regression model regressor

```
In [15]: ▶ regressor.fit(x_train, y_train)
```

Out[15]: LinearRegression()

In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.

On GitHub, the HTML representation is unable to render, please try loading this page with nbviewer.org.

test the model & create a predicted table

```
In [16]:  y_pred = regressor.predict(x_test)
```

visualize train data point(24 data)



visualize test data point



Year of Experiance

slope is generated from linear regression algorith which fit

intercept also generated by the model

predict or forcast the future the data which we not trainebefore

Out[25]: 138524