# Step 1: Data Preprocessing

```
In [1]: #import library
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

In [2]: #import dataset and split into x and y column
dataset = pd.read_csv('dataset.csv')
X = dataset.iloc[:, :1].values
Y = dataset.iloc[:, 1].values
```

```
In [3]: #import dataset split library
    from sklearn.model_selection import train_test_split
    #split dataset
    X_train, X_test, Y_train, Y_test = train_test_split( X, Y, test_size = 0.25, random_state = 0)
```

## Step 2: Fitting Simple Linear Regression Model to the training set

```
In [4]: #import linearRegression library
    from sklearn.linear_model import LinearRegression
    regressor = LinearRegression()
    regressor = regressor.fit(X_train, Y_train)
```

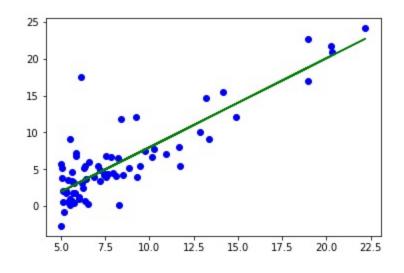
### Step 3: Predecting the Result

## Step 4: Visualization

#### Visualising the Training results

```
In [6]: plt.scatter(X_train , Y_train, color = 'B')
plt.plot(X_train , regressor.predict(X_train), color = 'G')
```

Out[6]: [<matplotlib.lines.Line2D at 0x26618ca4748>]



### Visualizing the test results

```
In [7]: plt.scatter(X_test , Y_test, color = 'B')
plt.plot(X_test , regressor.predict(X_test), color = 'G')
```

Out[7]: [<matplotlib.lines.Line2D at 0x26618f94b00>]

