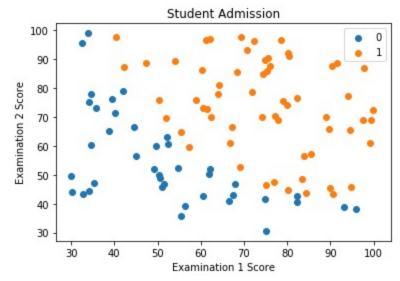
## Step 1 | Data Pre-Processing

### Importing the Libraries

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

#### Importing the dataset

```
dataset = pd.read_csv('Logistic Regression Dataset.csv')
In [3]: #separate two column
        x = dataset.iloc[:, [0, 1]].values
        y = dataset.iloc[:, 2].values
In [4]: # Admission Status (0 for Not Admitted and 1 for Admitted
        admissiones = [0, 1]
        # Dataset parameters that we will take into account.
        x_axis = 'Examination 1 Score'
        y_axis = 'Examination 2 Score'
        # Scatter the data on the plot for each validity class separatelly.
        for admission in admissiones:
            plt.scatter(
                dataset[x_axis][dataset['Status'] == admission],
                dataset[y_axis][dataset['Status'] == admission],
                label=admission
        # Plot the data.
        plt.xlabel(x_axis)
        plt.ylabel(y_axis)
        plt.title('Student Admission')
        plt.legend()
        plt.show()
```



#### Splitting the dataset into the Training set and Test set

```
In [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)
```

### **Feature Scaling**

## Step 2 | Logistic Regression Model

# Fitting Logistic Regression to the Training set

## Step 3 | Predection

#### Predicting the Test set results

```
In [7]: y_pred = classifier.predict(X_test)
    print(y_pred)
[1 1 0 0 1 1 1 1 0 1 0 0 0 1 1 1 0 1 1 1 1 0 1 1 1]
```

# Step 4 | Evaluating The Predection

### **Making the Confusion Matrix**

```
In [8]: from sklearn.metrics import confusion_matrix
cm = confusion_matrix(y_test, y_pred)
print(cm)

[[ 8     3]
     [ 0     14]]
```

# **Classfication Report**

```
In [9]: from sklearn.metrics import classification_report
       print('classification reprot is == >\n')
       print(classification_report(y_test,y_pred))
       classification reprot is == >
                   precision recall f1-score support
                       1.00
                             0.73
                                        0.84
                                                  11
                            1.00 0.90
                1
                                                  14
                       0.82
                       0.88
                             0.88
                                        0.88
         micro avg
                                                  25
         macro avg
                       0.91
                            0.86
                                        0.87
                                                  25
       weighted avg
                      0.90 0.88
                                        0.88
                                                  25
```