EX.NO-13 **LOGISTC REGRESSION**

Aim:
To implement model evaluation technique to get test score of a supervised learning algorithm

Description:

1. Use of Logistic Regression model for model evaluation
2. The given build in data set, can be split into training set and test set
3. Evaluate the model through its test score

Program:

```
from sklearn.linear_model import LogisticRegression
from sklearn.model_selection import train_test_split
from sklearn.datasets import make_blobs

# create a synthetic dataset
X, y = make_blobs(random_state=0)

# split data and labels into a training and a test set
X_train, X_test, y_train, y_test = train_test_split(X, y, random_state=0)

# instantiate a model and fit it to the training set
logreg = LogisticRegression().fit(X_train, y_train)

# evaluate the model on the test set
print("Test set score: {:.2f}".format(logreg.score(X_test, y_test)))
```

Output:

```
Test set score:0.88
```

Result:
The programs were run successfully