

**EX.NO-13****LOGISTIC 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 dataset, 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 synthetic dataset
X, y = make_blobs(random_state=0)

# split data and labels into training and 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
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 program was run successfully