

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 built-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