# 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