EX No:14

**Model Evaluation**

Evaluate accuracy score of Logistic Regression with build in Dataset

Aim:

To evaluate accuracy score of Logistic Regression with build in Dataset

Program:

from sklearn.model\_selection import train\_test\_split

from sklearn.datasets import make\_blobs

from sklearn.linear\_model import LogisticRegression

from sklearn.metrics import accuracy\_score

# Generating synthetic data

X, y = make\_blobs(random\_state=0)

# Splitting data into training and testing sets

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.33, random\_state=42)

# Creating and training logistic regression model

clf\_model = LogisticRegression()

clf\_model.fit(X\_train, y\_train)

# Making predictions on the test data

y\_pred = clf\_model.predict(X\_test)

# Evaluating model accuracy

accuracy = accuracy\_score(y\_test, y\_pred)

print("Accuracy:", accuracy)

Output:

Accuracy=0.9393