EXPERIMENT – 07

Write a program to implement Logistic Regression (LR) algorithm in python

CODE :

```
# Logistic Regression program

from sklearn.linear_model import LogisticRegression

# Input data

X = [[1], [2], [3], [4], [5]]

y = [0, 0, 0, 1, 1]


# Create model

model = LogisticRegression()


# Train model

model.fit(X, y)

# Test prediction

print(model.predict([[3]]))

print(model.predict([[5]]))
```

OUTPUT :

```
>>>
=== RESTART: C:/Users/lalit/AppData/Local/Programs/Python/Python313/exp-7.py ===
Predicted Values: [0 0]
Accuracy: 1.0

Warning (from warnings module):
  File "C:\Users\lalit\AppData\Local\Programs\Python\Python313\Lib\site-packages
\sklearn\metrics\_classification.py", line 620
    warnings.warn(
UserWarning: A single label was found in 'y_true' and 'y_pred'. For the confusio
n matrix to have the correct shape, use the 'labels' parameter to pass all known
 labels.
Confusion Matrix:
 [[2]]
>>>
```