**LOGISTIC REGRESSION:**

**CODE:**

import numpy as np

import pandas as pd

#"Importing the dataset

# divide the dataset into concepts and targets. Store the concepts into X and targets into y.

dataset = pd.read\_csv("C:\\Users\\prith\\Desktop\\MACHINE LEARNING\\breastcancer.csv")

X = dataset.iloc[:, :-1].values

y = dataset.iloc[:, -1].values

#Splitting the dataset into the Training set and Test

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

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size = 0.30, random\_state = 2)

#Feature Scaling

from sklearn.preprocessing import StandardScaler

sc = StandardScaler()

X\_train = sc.fit\_transform(X\_train)

X\_test = sc.transform(X\_test)

from sklearn.linear\_model import LogisticRegression

classifier = LogisticRegression(random\_state = 0)

classifier.fit(X\_train, y\_train)

#Logistic Regression (LR) classifier model

#Display the results (confusion matrix and accuracy)

from sklearn.metrics import confusion\_matrix, accuracy\_score

y\_pred = classifier.predict(X\_test)

cm = confusion\_matrix(y\_test, y\_pred)

print(cm)

print('Accuracy Score:confusion matrix')

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

# Calculate the accuracy of the model

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

print("Accuracy:", accuracy)

**OUTPUT:**

=================================== RESTART: C:/Users/prith/Desktop/MACHINE LEARNING/7.py ===================================

[[117 8]

[ 6 74]]

Accuracy Score:confusion matrix

Accuracy: 0.9317073170731708

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