EX No:12

Question

Implement Linear Regression using any data

Aim:

To implement Linear Regression using any data

Program:

import matplotlib.pyplot as plt

from scipy import stats

x = [5, 7, 8, 7, 2, 17, 2, 9, 4, 11, 12, 9, 6]

y = [99, 86, 87, 88, 111, 86, 103, 87, 94, 78, 77, 85, 86]

# Calculate linear regression

slope, intercept = stats.linregress(x, y)

# Define linear regression function

def myfunc(x):

return slope \* x + intercept

# Generate model values

mymodel = list(map(myfunc, x))

# Plot original data points and regression line

plt.scatter(x, y)

plt.plot(x, mymodel)

plt.show()

Output:

