Name : Shivam Indrabhan Borse

Roll No : 21119

Subject: Software Laboratory II (ANN)

Assignment No : 02

**Problem statement**: Generate ANDNOT function using McCulloch-Pitts neural net by a python program

---------------------------------------------------------------------------------------------------------------------------------------------

**CODE** :

x1 = [0, 0, 1, 1]

x2 = [0, 1, 0, 1]

w1 = [1, 1, 10, 1]

w2 = [1, 1, 2, 1]

t = 3

#output

print("x1 x2 w1 w2 t O")

for i in range(len(x1)):

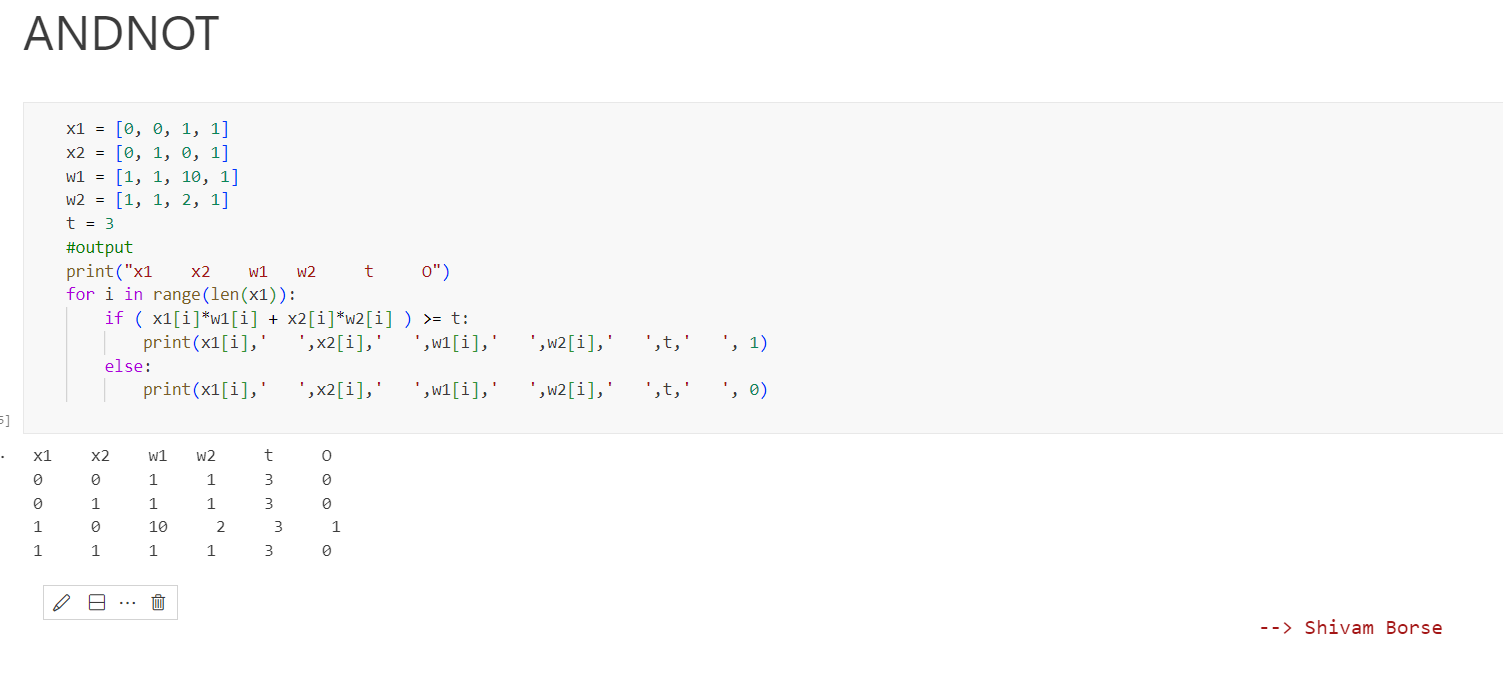
if ( x1[i]\*w1[i] + x2[i]\*w2[i] ) >= t:

print(x1[i],' ',x2[i],' ',w1[i],' ',w2[i],' ',t,' ', 1)

else:

print(x1[i],' ',x2[i],' ',w1[i],' ',w2[i],' ',t,' ', 0)

**OUTPUT :**

****