**Name :- Shivam Indrabhan Borse**

**Roll No :- 19**

**Subject: Artificial Neural Network**

**Class : TE**

**Branch: AI & DS**

**Practical – 2**

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

**Code :**

input\_table = np.array([

    [0,0],

    [0,1],

    [1,0],

    [1,1]

])

print(f'input table:\n{input\_table}')

weights = np.array([3,-2])

print(f'weights: {weights}')

dot\_products = input\_table @ weights

print(f'Dot products: {dot\_products}')

T = 2

for i in range(0,4):

    activation = linear\_threshold\_gate(dot\_products[i], T)

    print(f'Activation: {activation}')

**Output :**

