Name – Akshat Bhargava

Roll no – 22563

ANN – SL2

Prac 2

Code –

import numpy as np

def mp\_neuron(inputs, weights, threshold):

weighted\_sum = np.dot(inputs, weights)

output = 1 if weighted\_sum >= threshold else 0

return output

def and\_not(x1, x2):

weights = [1, -1]

threshold = 1

inputs = np.array([x1, x2])

output = mp\_neuron(inputs, weights, threshold)

return output

print("X1\t X2\t Out")

print(0,'\t',0,'\t',and\_not(0, 0))

print(1,'\t',0,'\t',and\_not(1, 0))

print(0,'\t',1,'\t',and\_not(0, 1))

print(1,'\t',1,'\t',and\_not(1, 1))

Output –

