Name:Shreya Kakade

Roll No:TEAD22541

Div:A

Practical No:2

```
[2]: import numpy as np
def mp_neuron(inputs, weights, threshold):
    weighted_sum = np.dot(inputs, weights)
     output = int(weighted_sum >= threshold)
     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
result = [(i, j, and_not(i, j)) for i in range(2) for j in range(2)]
print(f"{'X1':<5} {'X2':<5} {'Y':<5}")</pre>
print("-" * 15)
for row in result:
     print(f"{row[0]:<5} {row[1]:<5} {row[2]:<5}")</pre>
```

X1	X2	Υ
0	0	0
0	1	0
1	0	1
1	1	0

[]: