Prac2

def mcp\_andnot(a, b):

# Define weights and threshold

w1 = 1 # weight for input A

w2 = -1 # weight for input B (negated)

threshold = 1

# Calculate the weighted sum

weighted\_sum = w1 \* a + w2 \* b

# Apply threshold

if weighted\_sum >= threshold:

return 1

else:

return 0

# Test all possible input combinations

print("A B | A AND NOT B")

print("--------------")

for A in [0, 1]:

for B in [0, 1]:

result = mcp\_andnot(A, B)

print(f"{A} {B} | {result}")