**Write a program in Python to implement NAND function using MP neuron.**

**Code:**

w1 = int(input("enter the weight 1: "))  
w2 = int(input("enter the weight 2: "))  
theta = int(input("enter the theta:"))  
inputarray = [[0,0],[0,1],[1,0],[1,1]]  
expected = [1,1,1,0]  
actual = []  
for i in range(0,4):  
 temp = inputarray[i][0]\*w1+inputarray[i][1]\*w2  
 if(temp >= theta):  
 actual.append(1)  
 else:  
 actual.append(0)  
for i in range(0,4):  
 if(expected[i] == actual[i]):  
 found = 1  
 else:  
 found = 0  
 break  
print("Input array")  
print(inputarray)  
print("Actual output")  
print(actual)  
print("Expected output")  
print(expected)  
if(found ==1):  
 print("assumed weights and theta are correct")  
else:  
 print("assumed weights and theta are incorrect")

