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In [1]: 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")
```

```
enter the weight 1: -1
enter the weight 2: -1
enter the theta:-1
Input array
[[0, 0], [0, 1], [1, 0], [1, 1]]
Actual output
[1, 1, 1, 0]
Expected output
[1, 1, 1, 0]
assumed weights and theta are correct
```

In []: