Lab Assignment No. 2

Code:

```
import numpy as np

class McCullochPittsNeuron():
  def __init__(self, threshold, weights):
    self.threshold = threshold
    self.weights = weights
    self.output = []

  def andNot(self, inputs):
    for inputXY in inputs:
      self.weightedSum = self.weights[0]*inputXY[0] +
self.weights[1]*inputXY[1]
      if self.weightedSum >= self.threshold:
        self.output.append(1)
      else:
        self.output.append(0)
    return self.output

mcpn = McCullochPittsNeuron(1, [1, -1])
output = mcpn.andNot([(0,0), (0,1), (1, 0), (1, 1)])
print("Output of McCulloch Pitts Neuron",output)
```

Output:

```
Output of McCulloch Pitts Neuron [0, 0, 1, 0]
```