**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]