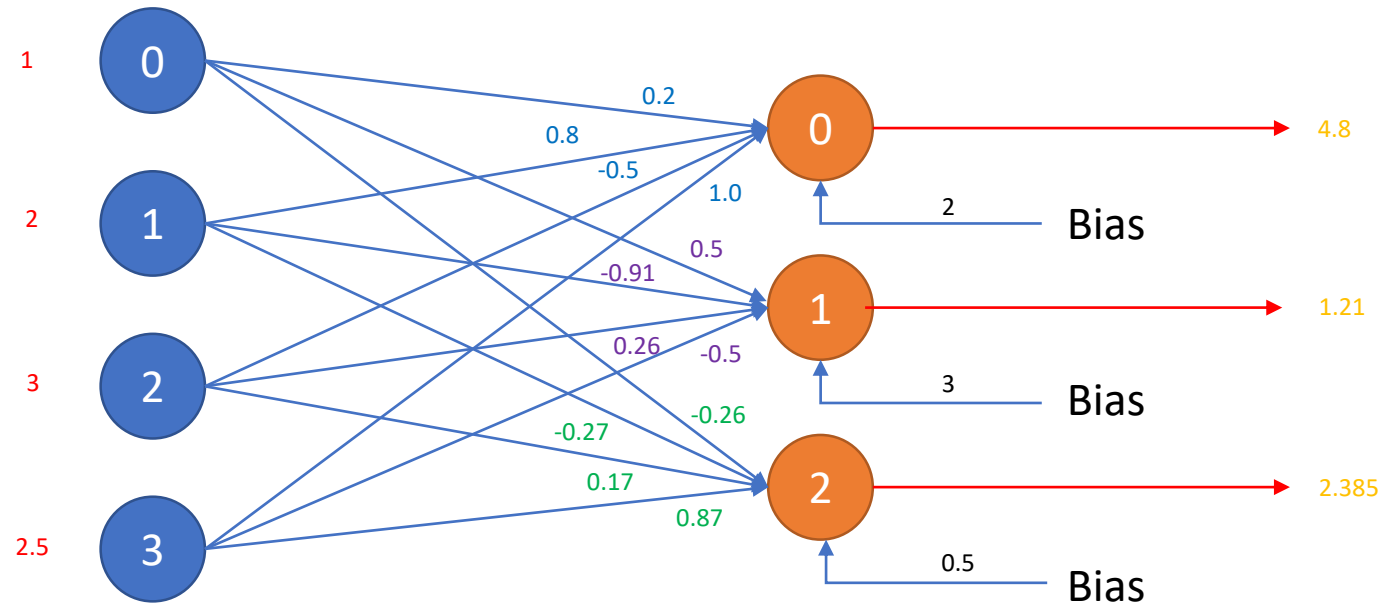


## 3-NEURONES EACH WITH 4-INPUTS

INPUTS

WEIGHTS

NEURONE



```
import numpy as np
```

```
inputs = [1, 2, 3, 2.5]  
# The weights matrix implies we have  
# three neurons  
weights = [[0.2, 0.8, -0.5, 1.0],  
           [0.5, -0.91, 0.26, -0.5],  
           [-0.26, -0.27, 0.17, 0.87]]  
biases = [2, 3, 0.5]
```

```
# Order of weights and inputs matters because  
# weights is a matrix and inputs is a vector  
output = np.dot(weights, inputs) + biases  
print(output)
```

Result:

[4.8 1.21 2.385]