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In [3]:

```python
import numpy as np
def sigmoid(x):
    return 1/(1+np.exp(-x))
```

In [4]:

```python
input_ = np.array([1,0.5],ndmin=2).T
print(input_)
print()
weight = np.array([[0.9,0.3],[0.2,0.8]])
print(weight)
print()
output = np.dot(weight,input_)
print(output)
print()
result = sigmoid(output)
print(result)
```

```
[[1. ]
 [0.5]]

[[0.9 0.3]
 [0.2 0.8]]

[[1.05]
 [0.6 ]]

[[0.7407749 ]
 [0.64565631]]
```

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