Deep learning pre-enrolment quiz

Question **1**

Marked out of 0.10

v1 (latest)

Let x_1 and x_2 be the inputs of a neuron, y be the output of this neuron, what's the meaning of w_1 and w_2 in the equation below:

$y=f(x\_1*w\_1+x\_2*w\_2+b)$

- a. weighted matrix
- b. bias
- c. output
- d. fixed matrix

Question **2**

Marked out of 0.10

v1 (latest)

Let x_1 and x_2 be the inputs of a neuron, y be the output of this neuron, what's the meaning of b in the equation below:

$y=f(x\_1*w\_1+x\_2*w\_2+b)$

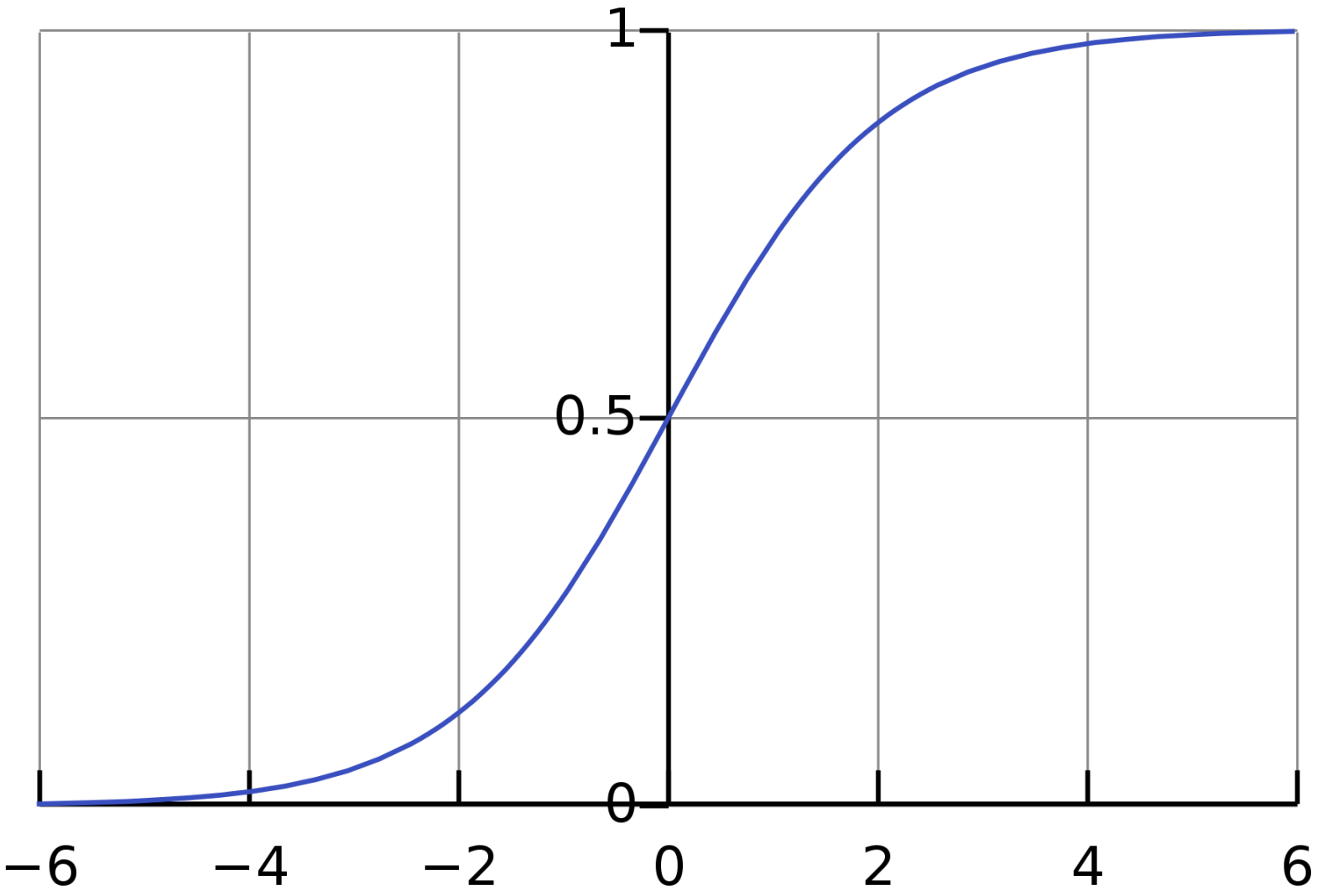
- a. bias
- b. weighted matrix
- c. fixed matrix
- d. weighted inputs

Question **3**

Marked out of 0.10

v1 (latest)

What is the activation function below?



a. Leaky ReLu

b. Rectified linear unit(ReLu)

c. ELU (Exponential Linear Units)

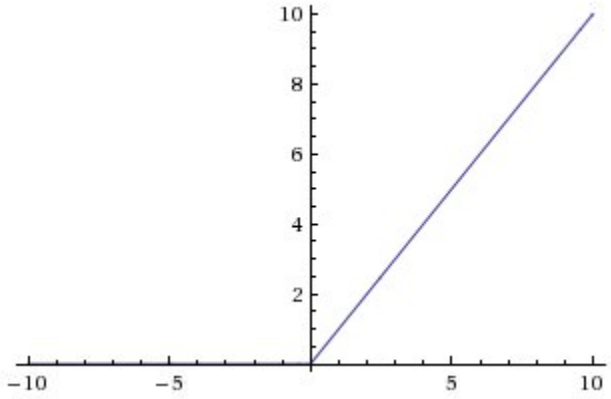
d. Sigmoid

Question **4**

Marked out of 0.10

v1 (latest)

What is the activation function below?



a. Sigmoid

b. ELU (Exponential Linear Units)

c. Leaky ReLu

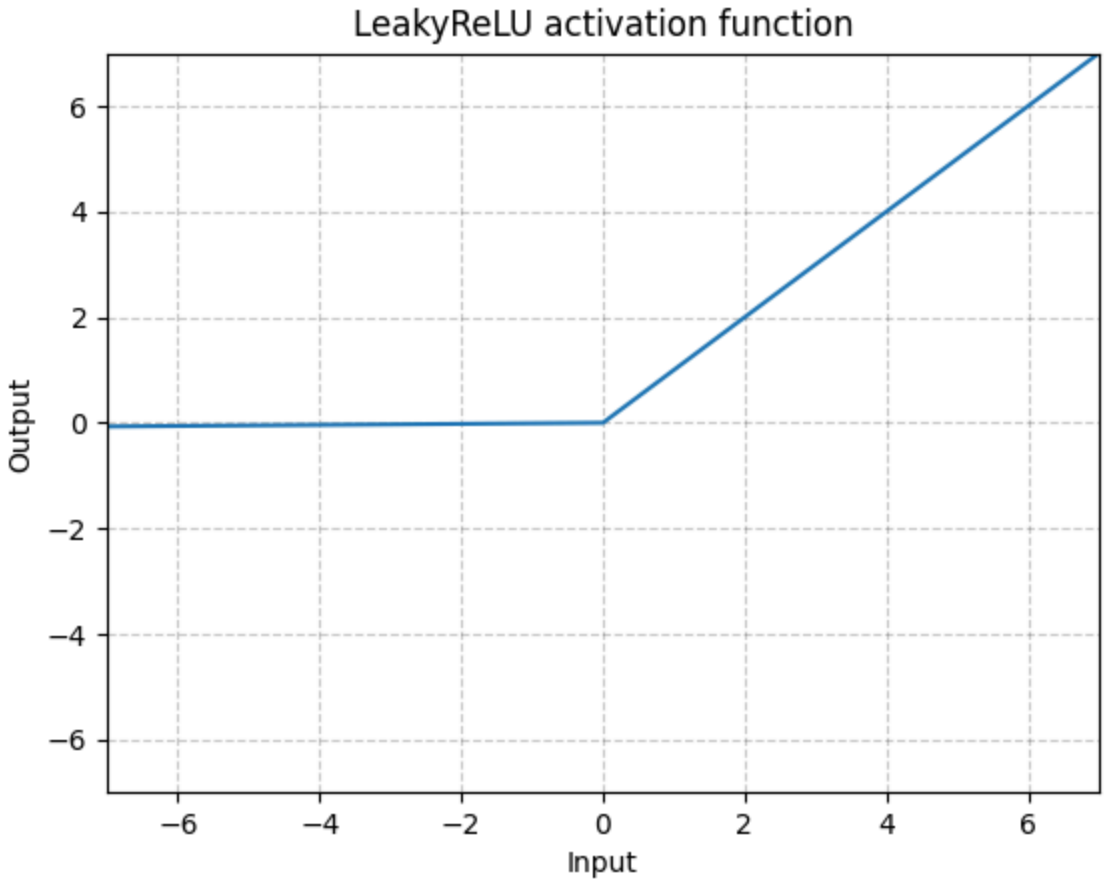
d. Rectified linear unit(ReLu)

Question **5**

Marked out of 0.10

v1 (latest)

What is the activation function below?



a. Leaky ReLu

b. Sigmoid

c. Rectified linear unit(ReLu)

d. ELU (Exponential Linear Units)

Question **6**

Marked out of 0.10

v1 (latest)

What is the activation function below?

$$f(x) = \frac{1}{1 + e^{-z}}$$

a. Rectified linear unit(ReLu)

b. Leaky ReLu

c. Sigmoid

d. ELU (Exponential Linear Units)

Question **7**

Marked out of 0.10

v1 (latest)

What is the activation function below?

$$f(x) = max(\alpha x, x)$$

- a. Sigmoid
- b. Leaky ReLu
- c. Rectified linear unit(ReLu)
- d. ELU (Exponential Linear Units)

Question **8**

Marked out of 0.10

v1 (latest)

What is the activation function below?

$$f(x) = max(0, x)$$

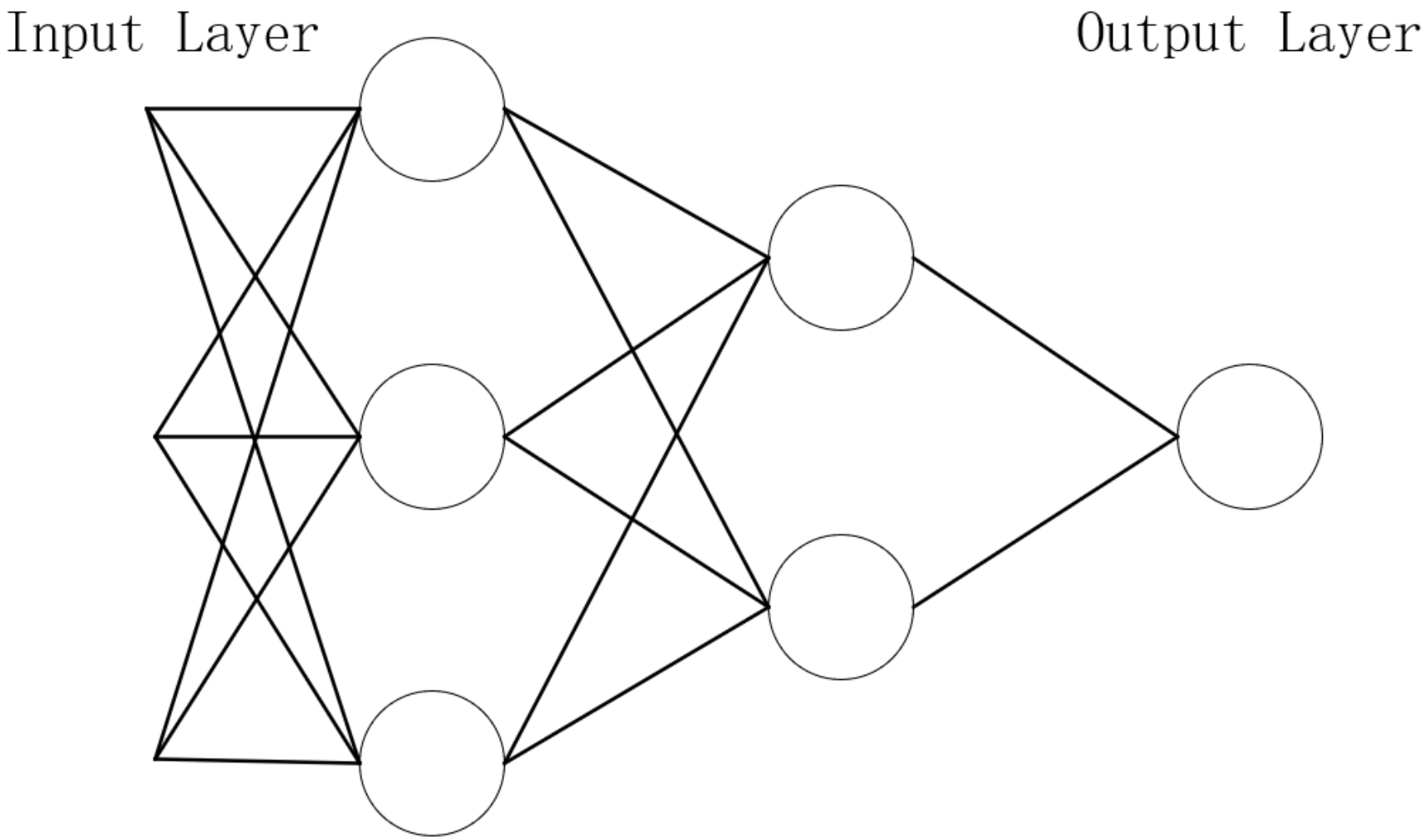
- a. Rectified linear unit(ReLu)
- b. Sigmoid
- c. Leaky ReLu
- d. ELU (Exponential Linear Units)

Question **9**

Marked out of 0.10

v1 (latest)

There are two hidden layers in the network below:



Select one:

- True
- False

Question **10**

Marked out of 0.10

v1 (latest)

To build a neural network from 'sklearn' package, we should import the 'neural_network' module from the 'sklearn' package.

Select one:

- True
- False