# Image recognition (For characters and Image)

Below demonstrate how to use AI for character recognition (This also applies to Image recognition). First, we need to train each character from A to Z. We will use the letter “a” for an example.

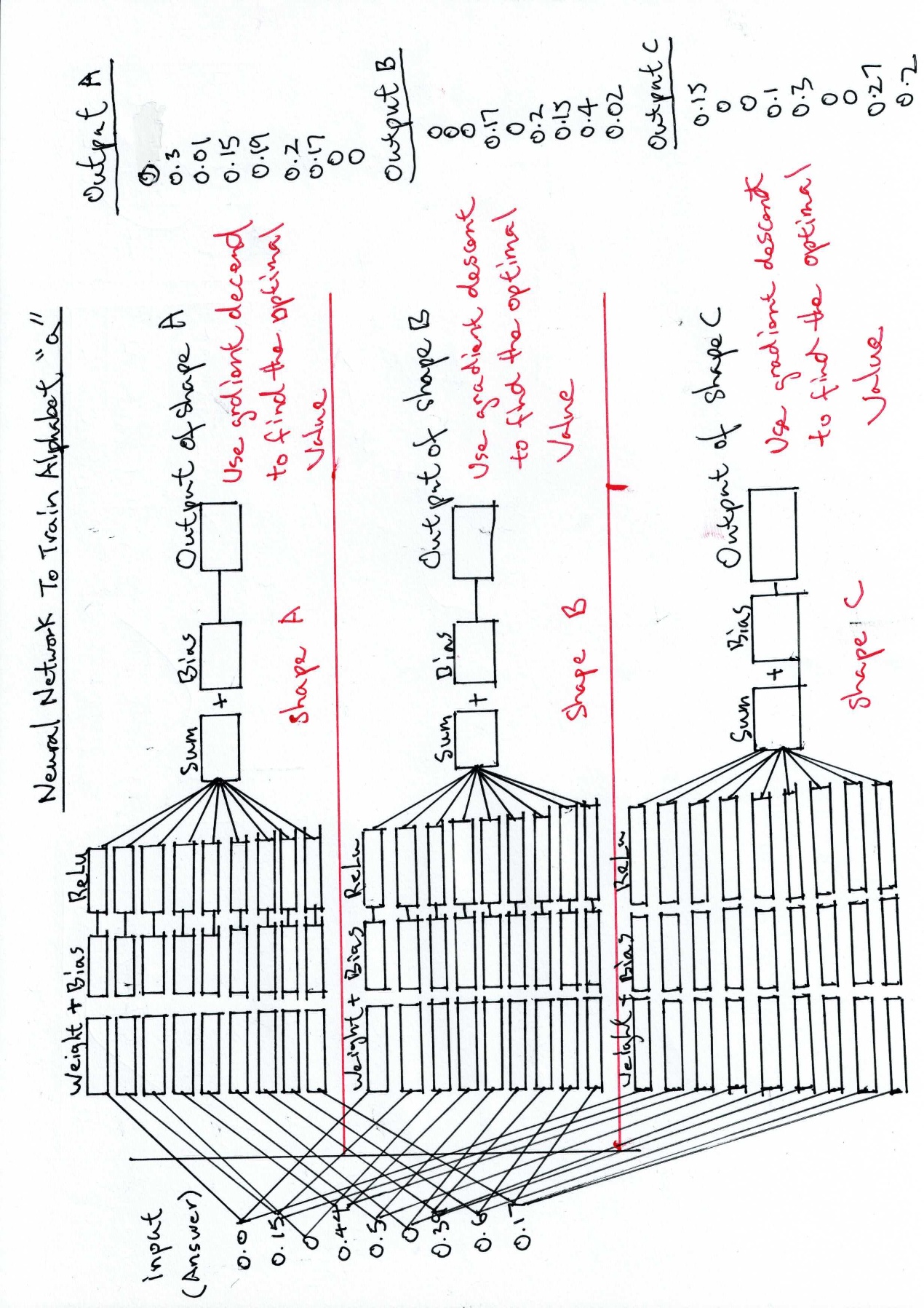
First thing we need to know that letter “a” is a combination of different edges **Figure 1**, shape a, b and c correspond to letter “a”. We need to train the letter “a” in correspond to the edges, that is **Figure 2**. When we train the neural network for the letter “a”, all the **weights** and **bias** will be set for prediction. For prediction **Figure 3,** we use the trained weights and bias to predict the image.

Why do we use ReLu for the activation function? It is because there will be no negative values only maximum positive values, if the maximum value is large, this means it is likely to be the shape of the edge and when passed to the sigmold activation function the output will be close to 1 as shown in **Figure 3**.

A paper with writing on it

AI-generated content may be incorrect.

***Figure 1.***



***Figure 2***

***A diagram of a building

AI-generated content may be incorrect.***

***Figure 3.***