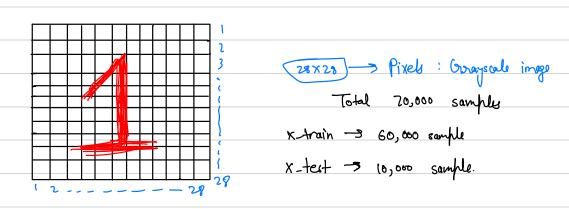
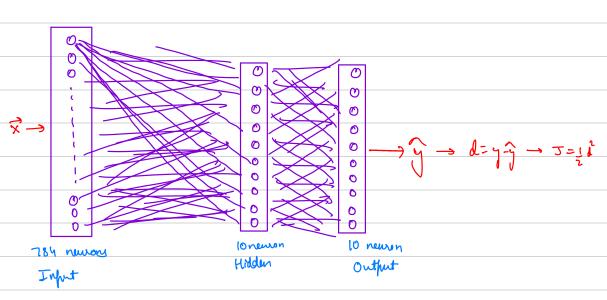
## Neural Network: From Scratch

Digito Classifier: MNIST Dataset



The input of NN should be 1d tensor = vector.

: (28,28) -> (784,)



b 1= 10,1

$$w^{2} = 10 \times 10$$

$$w^{2} \cdot x + b^{2} = \overline{z^{2}}$$

WI= 10 x 784

$$dz = az - y$$

$$dz = uz \cdot T. b + (dz)x$$

$$dw z = uz \cdot T. b + (dz)x$$

$$(z_{170})$$

$$dw_{1} = uz \cdot T. b + (dz)x$$

$$dw_{1} = uz \cdot T. b + (dz)x$$