<u>RESULTS</u>

The neural network has been designed and tested by varying the following :
1. Activation functions
2. No.of hidden layers
3. No.of neurons per hidden layer

The input layer has 784 neurons and the output layer has 10 neurons.

The best validation accuracies obtained for each Activation function are :
1. Relu - 98.34% with 2 hidden layers and 196 neurons in each hidden layer.
2. Tanh - 98.02% with 2 hidden layers and 392 neurons in each hidden layer.
3. Sigmoid - 96.95% with 2 hidden layers and 392 neurons in each hidden layer.

Hence, the best result is with **Relu Activation function - 98.34% with 2 hidden layers and 196 neurons in each hidden layer**.