*) classification on Fashion MNIST using Neuran

- ") Fashion MNIST dataset is a MNIST like dataset g total 70000 samples, each an image of 28 x 28 to be classified into 10 to classes.
- .) Ty torch how been used to lood the data set and for further defining the architecture of the neural network, along with its back used propogation & optimization.
- ·) first the image is Hattened into an array of 784 values, which will be fed into an artificial neural hetwork's first layer.
 - ·) The network configuration is as follows:

i/p layer: 784 units

hidden layer 1: 256 units (Kew)

hidden layer 2: 228 units (Kelv)

hidden layer 3: 64 units crew)

of player: 10 units (softmax)

There are 10 units in of layer, I corresponding to each dose in the tack of classification.

The Relu (Rectified Linear Unit) has been used

instead of coftmax or tank in the hidden layers, because of the issue of vanishing gradients. vanishing gradients is the issue of the value of gradients becoming very very small as they are backpropagated in a managed deep network that the weight adjustment becomes either very show or be comes hegligable