If you are using the colabs, you'll use the latest version of TensorFlow that Google Colaboratory supports, which, at time of writing is 1.13. You can replace this with 2.0 by adding a codeblock containing:

!pip install tensorflow==2.0.0-alpha0

**Sequential**: That defines a SEQUENCE of layers in the neural network

**Flatten**: Remember earlier where our images were a square, when you printed them out? Flatten just takes that square and turns it into a 1 dimensional set.

**Dense**: Adds a layer of neurons

Each layer of neurons need an **activation function** to tell them what to do. There's lots of options, but just use these for now.

**Relu** effectively means "If X>0 return X, else return 0" -- so what it does it it only passes values 0 or greater to the next layer in the network.

**Softmax** takes a set of values, and effectively picks the biggest one, so, for example, if the output of the last layer looks like [0.1, 0.1, 0.05, 0.1, 9.5, 0.1, 0.05, 0.05, 0.05], it saves you from fishing through it looking for the biggest value, and turns it into [0,0,0,0,1,0,0,0,0] -- The goal is to save a lot of coding!

[Beyond Hello, World - A Computer Vision Example](https://github.com/lmoroney/dlaicourse/blob/master/Course%201%20-%20Part%204%20-%20Lesson%202%20-%20Notebook.ipynb)

[Exploring Callbacks](https://github.com/lmoroney/dlaicourse/blob/master/Course%201%20-%20Part%204%20-%20Lesson%204%20-%20Notebook.ipynb)

[Exercise 2 - Handwriting Recognition - Answer](https://github.com/lmoroney/dlaicourse/blob/master/Exercises/Exercise%202%20-%20Handwriting%20Recognition/Exercise2-Answer.ipynb)