The Complete Neural Network Code

Here's the complete code of the Neural Network that we have built so far.

We've completed the neural network class. Here it is for reference, and you can always get it from the following link to GitHub, an online place for sharing code:

- https://github.com/makeyourownneuralnetwork/makeyourownneuralnetwork/blob/master/part2_neural_network.ipynb

```
# neural network class definit
class neuralNetwork:


    # initialise the neural ne
    def __init__(self, inputnod
        # set number of nodes
        self.inodes = inputnode
        self.hnodes = hiddennod
        self.onodes = outputnod

        # link weight matrices,
        # weights inside the ar
        # w11 w21
        # w12 w22 etc
        self.wih = numpy.rando
        self.who = numpy.rando


        # learning rate
        self.lr = learningrate

        # activation function
        self.activation_functi

        pass


    # train the neural network
    def train(self, inputs_lis
        # convert inputs list
```

There's not a lot of code here, especially if you appreciate that this code can be used to create, train and query 3-layer neural networks for almost any task. Next, we'll work on our specific task of learning to recognize numbers written

by humans.