**Artifitial Neural Network**

**Perceptron**

**BrainPerceptron**

Set parameters of ANN, count of iterations, train and output

**Layer**

Count of neurons in layer, list of this,

**Neuron**

Count of entered neurons, list of weights, output and error gradient

**ANN(artificial neural network)**

Constructor get: count of neurons which come in the start, count of outputs, count of layers, how many neurons in 1 layer, learning rate.

**Go (inputs, desiredOutput)**

This method go through the all of the layers every neuron and calculate new values .

1stly if layer not 1, puts outputs from previous layer to inputs in current layer and clear outputs.

2nd loop though the layers, neurons, inputs in every neuron and calculate the output. After that update weights.

**UpdateWeights(output, desired output)**

It’s like back propagation.

Check error function via output and desired output and calculate new weight value