Algorithm of Hebbian Learning Rule

1) Set all weights to 0, $w_i = 0$
2) For each input vector, i/p vector : target o/p pair, repeat steps 3-5.
3) Set activations (sigmoid) for input units as follows.
   → for unipolar i/ps → unipolar sigmoid f^2 [0 to 1]
   → for bipolar i/ps → bipolar sigmoid f^2 [-1 to 1]
4) Set the corresponding output value to the output neuron, i.e. $y = t$
5) Update the weights using Hebb rule, i.e.

$$w_i(new) = w_i(old) + x_i y$$