```
function NEURAL-NETWORK-LEARNING(examples) returns network

    network ← a network with randomly assigned weights
    repeat
        for each e in examples do
            O ← NEURAL-NETWORK-OUTPUT(network, e)
            T ← the observed output values from e
            update the weights in network based on e, O, and T
        end
    until all examples correctly predicted or stopping criterion is reached
    return network
```