

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Neural_Network {
8     class PerceptronOutputCell : Neuron {
9
10         public override void learn(TrainingInstance t) {
11             setDelta(t);
12
13             foreach (Synapse s in incomingSynapses) {
14                 s.weight += -learningRate * s.voltage * delta;
15             }
16         }
17
18         public override void setDelta(TrainingInstance t) {
19             calc();
20             delta = activateDifferentiated(excitation()) * (currentOutputVoltage - t.expectedOutput);
21         }
22
23         protected override double activate(double sum)
24         {
25             return sum;
26         }
27
28         protected override double activateDifferentiated(double sum)
29         {
30             return 1;
31         }
32     }
33 }
34
```