

```
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 BiasNeuron : Neuron {
9         public override void learn(TrainingInstance t) {
10             return;
11         }
12         public override void addIncomingSynapse(Synapse s, double initWeight) {
13             throw new Exception("Bias Neuron cannot have incoming synapses");
14         }
15
16         public override void addOutgoingSynapse(Synapse s) {
17             base.addOutgoingSynapse(s);
18             s.voltage = 1;
19         }
20
21         public override void calc() {
22             foreach (Synapse s in outgoingSynapses) {
23                 s.voltage = 1;
24             }
25             currentOutputVoltage = 1;
26         }
27         public override void setStaticOutput(double v) {
28             throw new NotImplementedException();
29         }
30     }
31 }
32
```