```
...y Project\Assets\Scripts\Circuits\Starting\NotGate.cs
```

```
1
```

```
1 using System.Collections.Generic;
2 using UnityEngine;
4 /// <summary>
 5 /// Logical representation of a NOT gate.
 6 /// </summary>
7 public class NotGate : Circuit
8 {
9
       public NotGate() : this(Vector2.zero) { }
10
       public NotGate(Vector2 startingPos) : base("NOT", 1, 1, startingPos)
11
         { }
12
       /// <summary>
13
       /// Returns an output to update if the output has changed due to
14
         alterations in input power statuses.
       /// </summary>
15
16
       /// <returns>The list of outputs that should have their connections
         called.</returns>
17
       protected override List<Output> UpdateOutputs()
18
       {
19
           bool outputStatus = Outputs[0].Powered;
           List<Output> outputs = new List<Output>();
20
21
22
           // NOT gate representation
23
           Outputs[0].Powered = !Inputs[0].Powered;
24
25
           if (outputStatus != Outputs[0].Powered || MaterialNotMatching())
             outputs.Add(Outputs[0]);
26
27
           return outputs;
       }
28
29
       /// <summarv>
30
       /// Checks all outputs to determine if the output node material is not 🤝
31
         matching its power status.<br/><br/>
32
       /// This is utilized within custom circuits to force update calls that 🤝
         would normally not occur due to the nature of UpdateOutputs().
33
       /// </summary>
       /// <returns>Whether any output material does not match its power
34
         status.</returns>
35
       private bool MaterialNotMatching()
36
37
           if (Outputs[0].StatusRenderer == null) return false;
38
           return (Outputs[0].Powered && Outputs
39
             [0].StatusRenderer.sharedMaterial !=
             CircuitVisualizer.Instance.PowerOnMaterial) ||
40
                  (!Outputs[0].Powered && Outputs
```