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CIS 365-01
Neural Networks

Sample output:

```
PS E:\Projects\CIS-365\neural-network> python .\network.py
AND Gate approximation after 15000 iterations:
(0,0) -> 9.52527584e-05
(0,1) -> 0.00574508
(1,0) -> 0.00600196
(1,1) -> 0.99212308
OR Gate approximation after 15000 iterations:
(0,0) -> 0.00774972
(0,1) -> 0.99512959
(1,0) -> 0.99511586
(1,1) -> 0.99685091
XOR Gate approximation after 15000 iterations:
(0,0) -> 0.01601539
(0,1) -> 0.98443326
(1,0) -> 0.98446631
(1,1) -> 0.01889117
```