Keras XOR Saurav Banerjee Period 4 First Run:

array([[10.598564, 10.886404],

[-10.234648, -10.703203]], dtype=float32), array([5.3421555, -5.8621697], dtype=float32)] [array([[-14.948143],

[15.064552]], dtype=float32), array([7.4421635], dtype=float32)]

Second Run:

Input 1	Input 2	Hidden Node 1	Hidden Node 2	Hidden Node 1 after Sigmoid	Hidden Node 2 After Sigmoid	Output Node Before Sigmoid	Output
1	1	5.7060715	-5.6789687	0.996685312	0.003405444	-7.405129578	0.000607756
1	0	15.9407195	5.0242343	0.99999881	0.993466349	7.460147761	0.99942476
0	1	-4.8924925	-16.5653727	0.007446827	6.39367E-08	7.330848223	0.999345411
0	0	5.3421555	-5.8621697	0.995237248	0.002836993	-7.392047179	0.000615754
				in1 = 1 or in2 = 0	input2 = 0 and input 1 = 1		HN1 = HN2
Input 1	Input 2	Hidden Node 1	Hidden Node 2	Hidden Node 1 after Sigmoid	Hidden Node 2 After Sigmoid	Output Node Before Sigmoid	Output
1	1	5.887241	-6.0208205		0.002421798	-7.428135529	0.000593942
1	0	17.241545	5.3670405	0.99999967	0.995353763	7.488579502	0.999440876
0	1	-5.280642	-17.389161	0.005063394	2.80533E-08	7.366475584	0.999368307
0	0	6.073662	-6.0013	0.997702565	0.002469419	-7.434436428	0.000590213
				in1 = 1 or in2 = 0	input2 = 0 and input 1 = 1		HN1 = HN2

Hidden Node 1 -> A Hidden Node 2 -> B Result -> C

A: Input 1 = 1 or Input2 = 0 B: Input 2 = 0 and Input 1 = 1

C: A == B