

Ex- Implement logic OR operation using Delta Learning Rule. Use bipolar inputs and target. Consider learning rate, $\alpha=0.1$, Perform 2 Epoch for Network training

Solution-

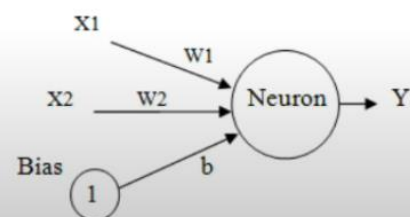
Binary input and output represented as = 0 & 1

Bipolar input and output represented as = -1 & 1

So replace '0' by '-1' in truth table of OR gate.

Truth table of OR gate		
Input		Output
X1	X2	Y
1	1	1
1	0	1
0	1	1
0	0	0

Bipolar Input			Target Output
X1	X2	Bias, b	t
1	1	1	1
1	-1	1	1
-1	1	1	1
-1	-1	1	-1



Single layer Perceptron

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