|  |  |  |
| --- | --- | --- |
| **X1** | **X2** | **OR** |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

**OR GATE USING PRECEPTRON**

*wo* + < 0

*wo* + ≥ 0

*wo* + ≥ 0

*wo* + ≥ 0

*w0*+ *w1* . 0 + *w2*. 0 < 0 => *w0* < 0

*w0*+ *w1* . 0 + *w2*. 1 ≥ 0 => *w0* ≥ *-w2*

*w0*+ *w1* . 1 + *w2*. 0 ≥ 0 => *w0* ≥ *-w1*

*w0*+ *w1* . 1 + *w2*. 1 ≥ 0 => *w0 ≥ -w2 - w*1

All the points on the right side of the line yield +ve value and on the left yield -ve/0 value.