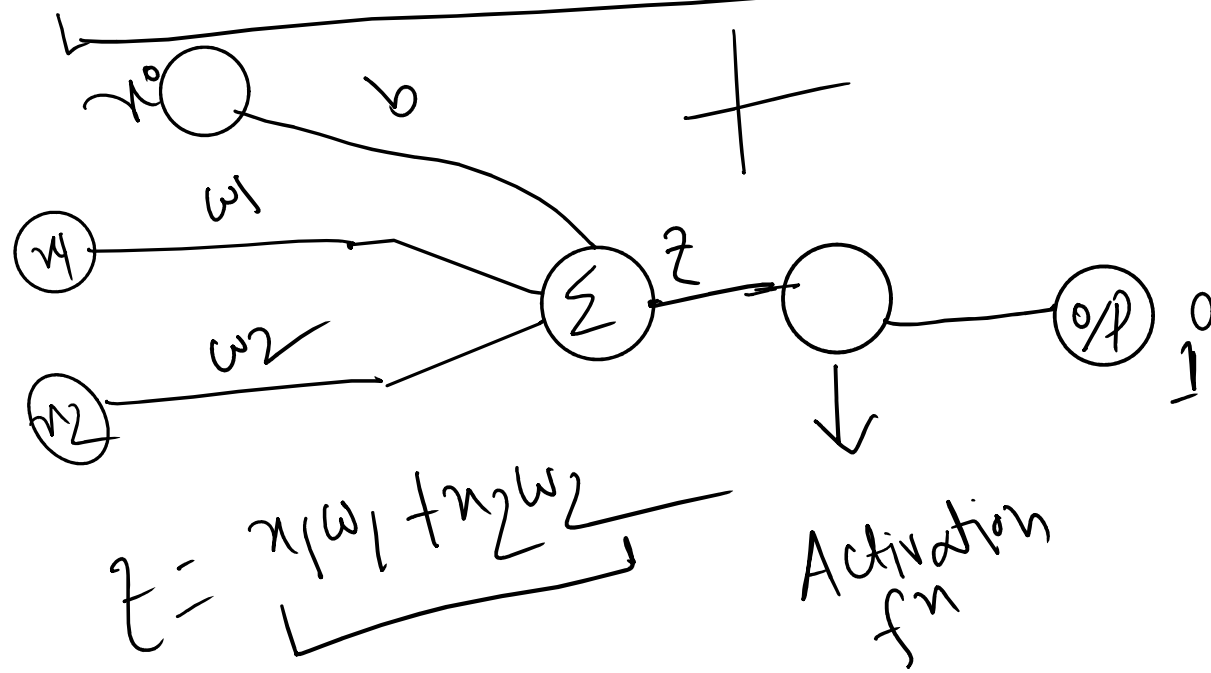


Supervised Algorithm:



Activation fn:

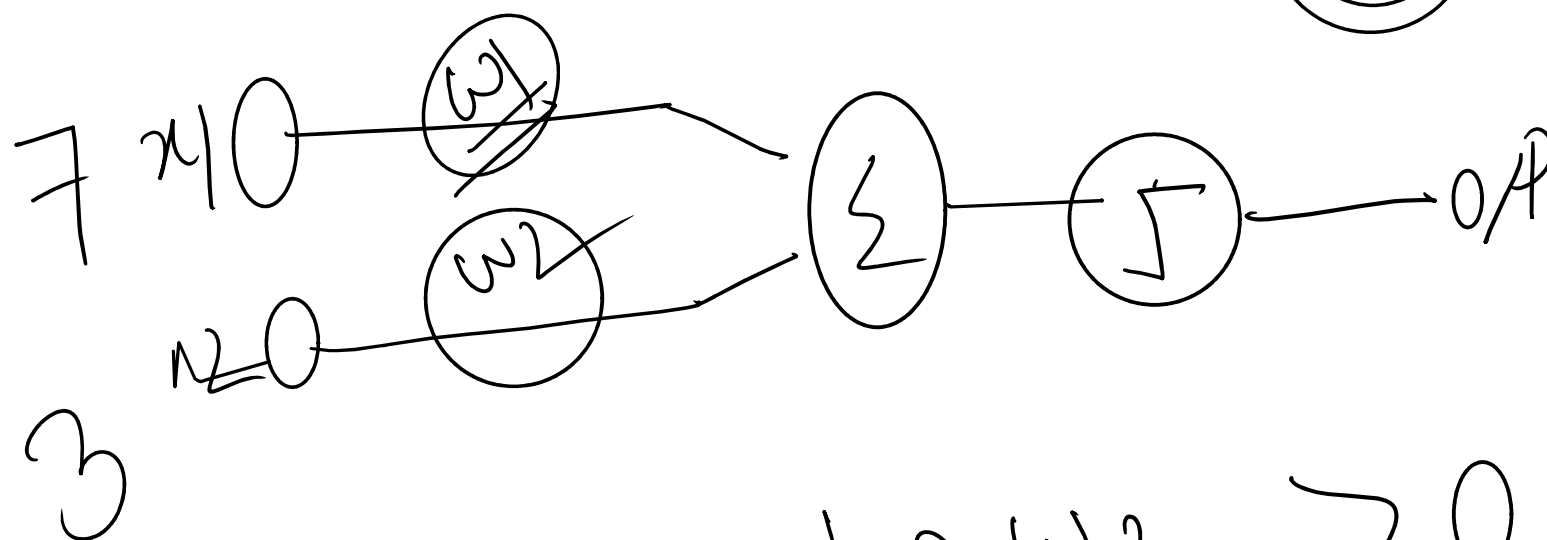
$$\begin{cases} 1 & z > 0 \\ 0 & z < 0 \end{cases}$$

✓  $x_1$  ✓  $x_2$  ✓  
Inputs | ... | Params / bias

$$\begin{aligned} w_1 &= 0.3 \\ w_2 &= 0.5 \\ b &= 0.1 \end{aligned}$$

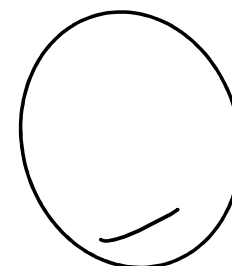
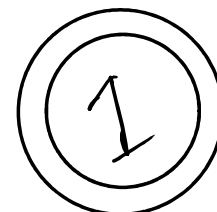
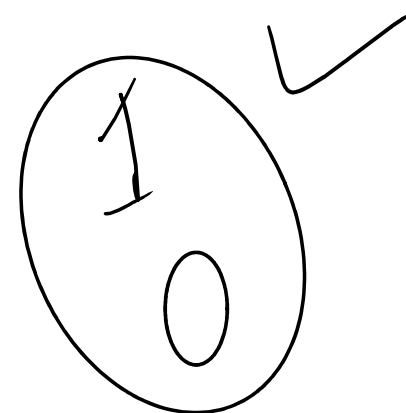
$x_1$ Study hours	$x_2$ Attendance	Pass/fail
12	7	1
7	3	0

$$w_1 = 1 \quad w_2 = 1.5$$



$$7w_1 + 12w_2 > 0$$

$$7 + 3 \times 1.5 < 0$$



Weight update formula