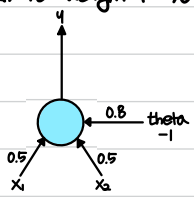


| AND |   |    |
|-----|---|----|
| x   | y | xy |
| 0   | 0 | 0  |
| 0   | 1 | 0  |
| 1   | 0 | 0  |
| 1   | 1 | 1  |

# 1. 강의 내용 weight 학습의 변화 과정을 표로 작성

| x1 | x2 | T | O | delta_w1 | w1  | delta_w2 | w2  | delta_w3 | w3  |
|----|----|---|---|----------|-----|----------|-----|----------|-----|
| 0  | 0  | 0 | 0 | 0        | 0.1 | 0        | 0.5 | 0        | 0.8 |
| 0  | 1  | 0 | 0 | 0        | 0.1 | 0        | 0.5 | 0        | 0.8 |
| 1  | 0  | 0 | 0 | 0        | 0.1 | 0        | 0.5 | 0        | 0.8 |
| 1  | 1  | 1 | 0 | 0.2      | 0.3 | 0.2      | 0.7 | -0.2     | 0.6 |
| 0  | 0  | 0 | 0 | 0        | 0.3 | 0        | 0.7 | 0        | 0.6 |
| 0  | 1  | 0 | 1 | 0        | 0.3 | -0.2     | 0.5 | 0.2      | 0.8 |
| 1  | 0  | 0 | 0 | 0        | 0.3 | 0        | 0.5 | 0        | 0.8 |
| 1  | 1  | 1 | 0 | 0.2      | 0.5 | 0.2      | 0.7 | -0.2     | 0.6 |
| 0  | 0  | 0 | 0 | 0        | 0.5 | 0        | 0.7 | 0        | 0.6 |
| 0  | 1  | 0 | 1 | 0        | 0.5 | -0.2     | 0.5 | 0.2      | 0.8 |
| 1  | 0  | 0 | 0 | 0        | 0.5 | 0        | 0.5 | 0        | 0.8 |
| 1  | 1  | 1 | 1 | 0        | 0.5 | 0        | 0.5 | 0        | 0.8 |
| 0  | 0  | 0 | 0 | 0        | 0.5 | 0        | 0.5 | 0        | 0.8 |
| 0  | 1  | 0 | 0 | 0        | 0.5 | 0        | 0.5 | 0        | 0.8 |
| 1  | 0  | 0 | 0 | 0        | 0.5 | 0        | 0.5 | 0        | 0.8 |
| 1  | 1  | 1 | 1 | 0        | 0.5 | 0        | 0.5 | 0        | 0.8 |

# 2. 최종 weight이 학습된 perceptron 작성



$$(y=) 0.5x_1 + 0.5x_2 + 0.8 = 0$$

$$y=1 \text{ if } 0.5x_1 + 0.5x_2 + 0.8 > 0$$