$$\frac{\partial E_{total}}{\partial in_{o1}} = coef_{o1} = out_1 - o1 = 0.668 - 1 = -0.332$$

$$\frac{\partial E_{total}}{\partial in_{o2}} = coef_{o2} = out_2 - o2 = 0.332 - 0 = 0.332$$

$$w_1 = w_1 - \alpha \frac{\partial E_{total}}{\partial w_1} = w_1 - \alpha \frac{\partial E_{total}}{\partial in_{o1}} \cdot \frac{\partial in_{o1}}{\partial w_1} = w_1 - \alpha \cdot coef_{o1} \cdot i1 = 0.1 - 0.5 * (-0.332) * 0.1 = 0.117$$

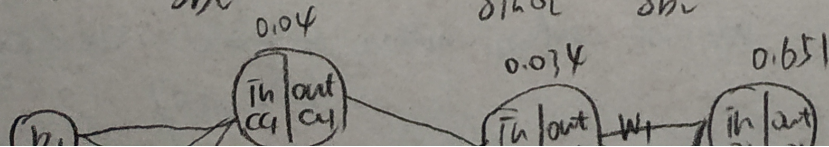$$w_2 = w_2 - \alpha \frac{\partial E_{total}}{\partial w_2} = w_2 - \alpha \frac{\partial E_{total}}{\partial in_{o1}} \cdot \frac{\partial in_{o1}}{\partial w_2} = w_2 - \alpha \cdot coef_{o1} \cdot i2 = 0.2 - 0.5 * (-0.332) * 0.2 = 0.233$$

$$w_3 = w_3 - \alpha \frac{\partial E_{total}}{\partial w_3} = w_3 - \alpha \frac{\partial E_{total}}{\partial in_{o2}} \cdot \frac{\partial in_{o2}}{\partial w_3} = w_3 - \alpha \cdot coef_{o2} \cdot i1 = -0.1 - 0.5 * 0.332 * 0.1 = -0.117$$

$$w_4 = w_4 - \alpha \frac{\partial E_{total}}{\partial w_4} = w_4 - \alpha \frac{\partial E_{total}}{\partial in_{o2}} \cdot \frac{\partial in_{o2}}{\partial w_4} = w_4 - \alpha \cdot coef_{o2} \cdot i2 = -0.2 - 0.5 * 0.332 * 0.2 = -0.233$$

$$b_1 = b_1 - \alpha \frac{\partial E_{total}}{\partial b_1} = b_1 - \alpha \frac{\partial E_{total}}{\partial in_{o1}} \cdot \frac{\partial in_{o1}}{\partial b_1} = b_1 - \alpha \cdot coef_{o1} \cdot 1 = 0.5 - 0.5 * (-0.332) * 1 = 0.466$$

$$b_2 = b_2 - \alpha \frac{\partial E_{total}}{\partial b_2} = b_2 - \alpha \frac{\partial E_{total}}{\partial in_{o2}} \cdot \frac{\partial in_{o2}}{\partial b_2} = b_2 - \alpha \cdot coef_{o2} \cdot 1 = -0.5 - 0.5 * 0.332 * 1 = -0.466$$