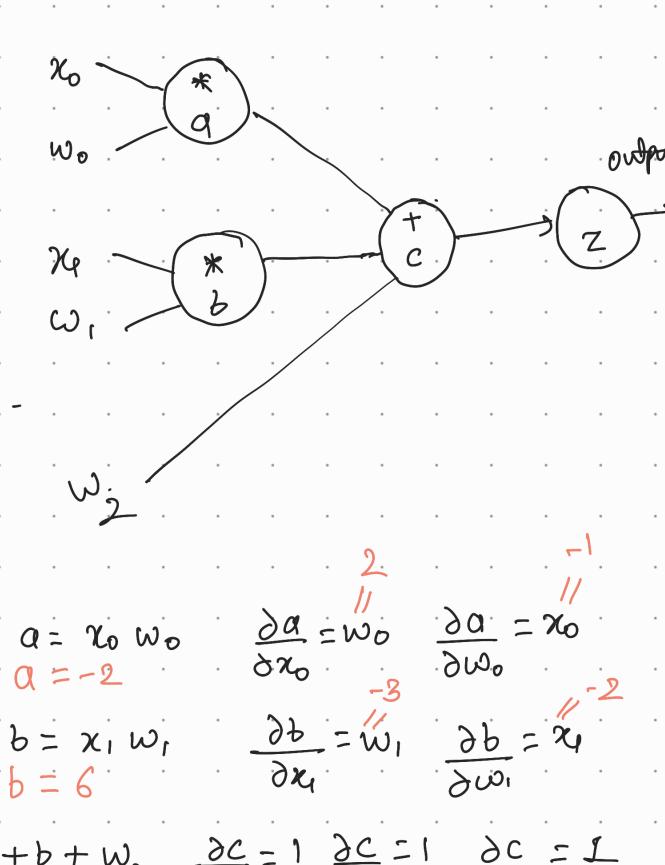
$$f(\omega, x) = \frac{1}{1 + e^{-(\omega_0 z_0 + \omega_1 z_4 + \omega_2)}}$$



$$Z = \frac{1}{1 + e^{-C}} \frac{\partial Z}{\partial c} = \frac{(1 + e^{-C}) \times 0 - 1(e^{-C})(-1)}{(1 + e^{-C})^{2}}$$

$$Z = \frac{1}{1 + e^{-1}} \frac{\partial Z}{\partial c} = \frac{e^{-C}}{(1 + e^{-C})^{2}}$$

$$Z = 0.731 \frac{\partial Z}{\partial c} = 0.19661$$

We have to compute:-

$$\frac{\partial Z}{\partial x_0}$$
, $\frac{\partial Z}{\partial w_0}$, $\frac{\partial Z}{\partial x_0}$, $\frac{\partial Z}{\partial w_1}$, $\frac{\partial Z}{\partial w_2}$

$$\frac{\partial Z}{\partial n_0} = \frac{\partial Z}{\partial c} \cdot \frac{\partial c}{\partial a} \cdot \frac{\partial a}{\partial n_0} = \frac{(0.19661)(1)(2)}{= 0.39332}$$

$$\frac{\partial Z}{\partial \omega_0} = \frac{\partial Z}{\partial c} \cdot \frac{\partial c}{\partial a} \cdot \frac{\partial q}{\partial \omega_0} = \frac{(0.19661)(1)(-1)}{= -0.19661}$$

$$\frac{\partial Z}{\partial n_0} = \frac{\partial Z}{\partial c} \cdot \frac{\partial c}{\partial b} \cdot \frac{\partial c}{\partial n_0} = \frac{\partial c}{\partial n_0} \cdot \frac{\partial c}{\partial n_0} = \frac{\partial c}$$

$$\frac{\partial 2}{\partial w_1} = \frac{\partial 2}{\partial c} \cdot \frac{\partial c}{\partial b} \cdot \frac{\partial b}{\partial w_1} = \frac{(0.19661)(1)(2)}{-0.39322}$$

$$\frac{\partial Z}{\partial \omega_e} = \frac{\partial Z}{\partial c} \cdot \frac{\partial c}{\partial \omega_e} = \frac{(0.19661)}{50.19661} = 0.19661$$

