Vectorized linear regression:

 $z^{(i)} = W^T x^{(i)} + b$ $Z = W^T X + B$; where: $a^{(i)} = 6(z^{(i)}) \rightarrow \text{prediction}$

 $W^{T} = \begin{bmatrix} w_0 & w_1 & \dots & w_{n \times} \end{bmatrix} \qquad X^{=} \begin{bmatrix} x_1 & x_1 & x_2 & \dots & x_{n \times} \\ x_1 & x_1 & x_2 & \dots & x_{n \times} \end{bmatrix} ; \begin{bmatrix} b_0 & b_1 & \dots & b_n \\ b_1 & \dots & b_n & \dots & b_n \end{bmatrix}$

Element-Wise product: A OB (same shape)

Aman @ Bman = Cman