CROSS ATTENTION

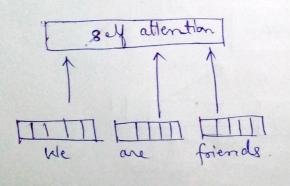
Mhot is cross attention?

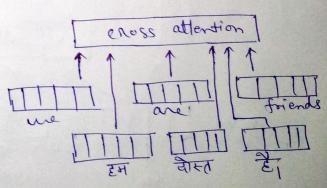
- eross attention is a mechanism used in tromsformer architectures, particularly in tasks involving sequence-to-sequence data like translation or summarization. It allaws a model to focus on different parts of an input sequence when generating an autput sequence.

- cross attention is used to find the similarity or relation between the two sequences. (Like a heatmap)

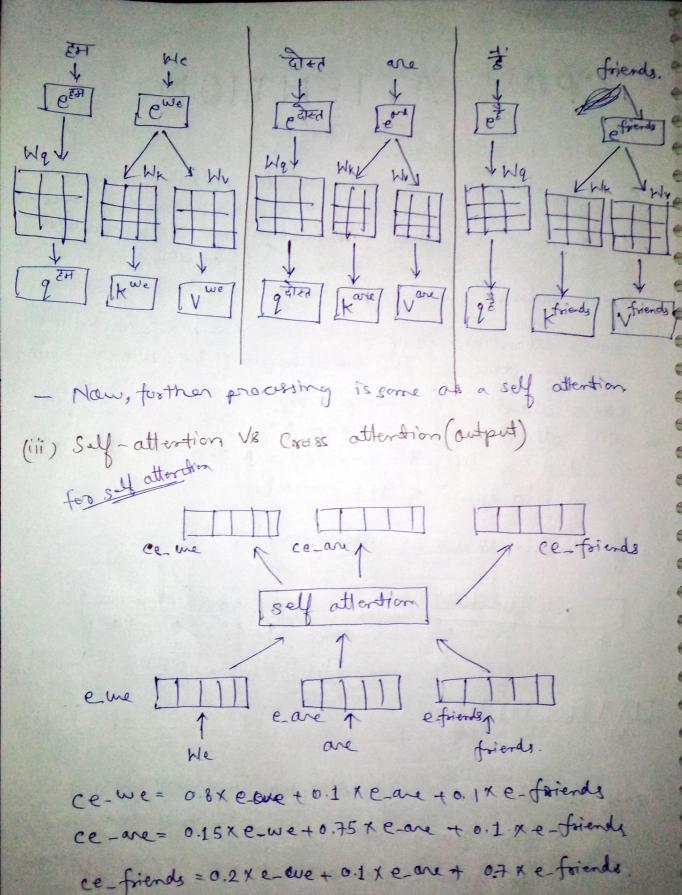
cooss attention is conceptually very similar to the Self attention. but they are different in the context of "in put" provided, "processing" the text and "autput" of the model.

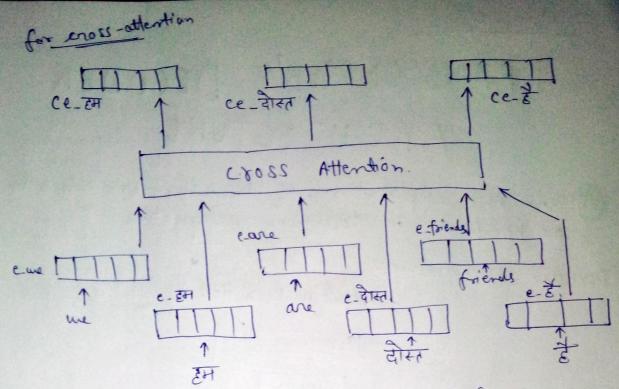
sof attention Vs (ross attention (input):





self attention Va (ross Attention (processing): for query votor - use output sequence for tey and value vector -> use in put sequence





ce-2+ = 0.5 x e-we+0.3 x e-are+0.2 x e-friends ce-2++ = 0.2 x e-we+0.2 x e-are+0.6 x e-friends. ce-2 = 0.3 x e-ade+0.4 x e-are+0.3 x e-friends.