Q-4-) Ami- In CNN, the unnecessary edges are therword on ignoned to nederal the complexity of fully connected metwork. So, there are many edges that exists which is being used repealedly, CNN thies to make the edges share among the openions that require it. Each filtens in the neurone is replicated anits share the same parameteriters on (weight vector and bias) to form a feature map. So, every neurone in the convolutional layer respond to the same feature within their specific response field. Shared concept of CNN.

The two convolution layers and filters of net denotions dank [light and light / dank boundaries is given below: - So, Representing lighter value as D and danker velue as

more $99577''$ on 1: $W_1 = \begin{bmatrix} -1 & 0 & 1 \\ -1 & 0 & 1 \\ -1 & 0 & 1 \end{bmatrix}$ $W_2 = \begin{bmatrix} 1 & 0 & 1 \\ -1 & 0 & 1 \end{bmatrix}$	1	0 0	-1	
Cank High		\	1.,	-