CV ASSIGNMENT 10

Q1) there would be no learning if weights are zero.

Q2) weights can shift on either direction easily, positive or negative.

Q3) kernel size is increased by putting holes in-between consecutive elements of kernel.

Q4) transposed convolution is normal convolution but with modified input feature map.

Q5) in separable convolution, multiple convolutions produce output same as single large convolution.

Q6) in depth wise convolution, filter depth is not same as input depth. In fact, single depth filter (the same filter) is applied to all channels in depth of input.

Q7) both depth wise and separable convolutions are applied.

Q8) capsule relationships helps in creating proper hierarchies in model.

Q9) pooling reduces parameters, improves computational ease while summarising the features.

Q10) the region of input which affects a particular feature is receptive field of that feature.