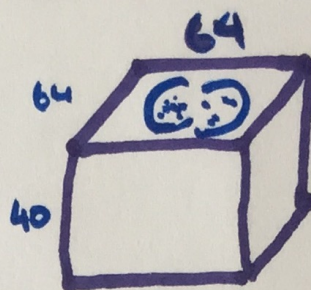
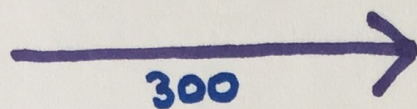
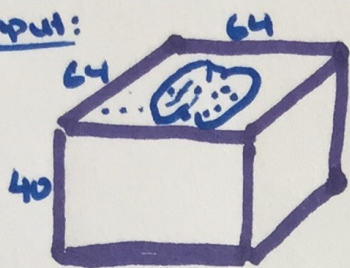
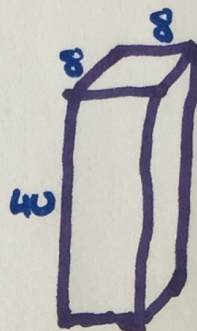
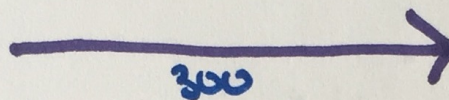
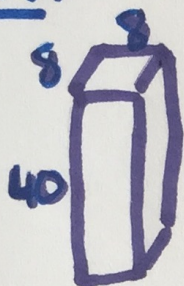


# Simplest Convolutional Neural Network

Input:



Conv:

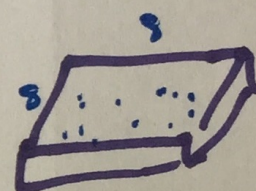
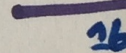


convolved  
across  
input

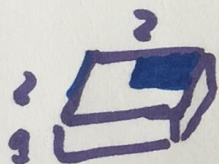
$$\Rightarrow 8 \times 8 \times 1 \times 1$$

16 of such kernels

stacked output:

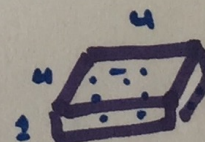
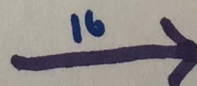


Pool:



max value in every  $2 \times 2 \times 1 \times 1$  is taken.

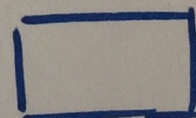
Output:



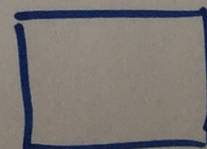
FC:



32 neurons  $\Rightarrow$



Autism



No Autism