DEEP LEARNING EX 9

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1) When we changed the numer of filters from 3 to 16, accuracy raised to %37. Therefore we can say that more filters perform better.

2) When we changed the Kernel size to 3x3 from 5x5 we observed that the accuracy stays the same.
   Using smaller filters helps to:
- Reduce the number of parameters.
- Improve the ability to capture local and hierarchical features.
- Make the network more computationally efficient.

3) When we applied batchnorm, network performed much better. This is because batch normalization introduces a form of regularization, smooth gradient flow and stabilization, which yields in faster convergence and better generalization.

4) Because of the global average pooling applied just before the final fully connected layer, the network can handle varying size of the inputs.