Homework #3

### To be submitted:

1. Implement optimization methods:   
   <https://github.com/omriallouche/ydata_deep_learning_2021/blob/main/assignments/optimization_methods/Optimization%20methods.ipynb>
2. Build a convolutional network:   
   <https://github.com/omriallouche/ydata_deep_learning_2021/blob/master/assignments/cnn_step_by_step/Convolution%20model%20-%20Step%20by%20Step%20-%20v1.ipynb>

### Suggested reading:

1. **Cross entropy loss and softmax:** In depth overview - <http://neuralnetworksanddeeplearning.com/chap3.html>
2. For you Math lovers - why **momentum** actually works: <https://distill.pub/2017/momentum/>