TDT4171 - Assignment 5

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Result with lr = 1e-3 (default):

```
Hannas-MacBook-Air-2:A5 hannahjelmeland$ python3 neural_network_skeleton.py
100%|| 400/400 [00:14<00:00, 27.43it/s]
Accuracy w hidden layer: 0.825
100%|| 400/400 [00:05<00:00, 70.97it/s]
Accuracy w perceptron: 0.871
.
----------------------------------------------------------------------
Ran 2 tests in 20.299s

OK
```

With lr = 1e-2

```
Hannas-MacBook-Air-2:A5 hannahjelmeland$ python3 neural_network_skeleton.py
100%|| 400/400 [00:16<00:00, 23.94it/s]
Accuracy w hidden layer: 0.942
100%|| 400/400 [00:07<00:00, 53.05it/s]
Accuracy w perceptron: 0.93
.
----------------------------------------------------------------------
Ran 2 tests in 24.346s

OK
```