

Homework 03 Review for Group 13

General Feedback

- You provided the necessary installs
- Comments and Docstrings would have been nice
- Code looks a little cluttered
- Maybe some additional markdown cells to structure your notebook according to the different tasks could be added

Task 01 - Experience Replay Buffer

- Nice use of `collections.deque` → `Fifo` is therefore also implemented

Task 02 DQ Network

- Maybe a second dense layer would have been a good addition
- Instead of hard coding the output neurons, you could have also dynamically set them by using `"env.action_space.n"` (though only necessary for a bonus point)

Task 03 DQN Training

- Great idea to visualize the reward, a plot the loss would have been great too. Axis labels could be added for better readability.
- As you said yourself, the agent doesn't train successfully, yet (Understandable, since hyperparameter tuning in RL is difficult)
- You included a delayed target network which is nice :)
- For your epsilon soft policy in the else case you should take the `argmax` over the model network output instead of the `targe_network` output