***Artificial Intelligence Project 2 Part 3***

In this folder I have uploaded my python file which implements the deep Q learning algorithm for the Coppeliasim. I have implemented both training and testing in the same .py file(exec\_environment.py)

It also contains the following files:

* Log\_training\_details: In this I have stored the total rewards of each episode and the td error for each deep Q learning model updation as a part of training.
* results.txt: In this file I have stored the success rate of the model by testing it with 100 trails and logged the total time taken and the time for each trail.
* Video: Video of mixing of blocks in the coppeliasim.

The training and testing code of Q learning as well as the testing code of random is implemented in the exec\_environment.py file.

**References:**

**1.https://towardsdatascience.com/deep-q-networks-theory-and-implementation-37543f60dd67**

**2.** [**https://github.com/mswang12/minDQN/blob/main/**](https://github.com/mswang12/minDQN/blob/main/)

**3.** **https://towardsdatascience.com/deep-q-learning-tutorial-mindqn-2a4c855abffc**