ML Major Project

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Files Included:

- `DDQN_Final_task1.h5` : Model file for Task 1

- `DDQN_Final_task2.h5` : Model file for Task 2

- `DDQN_Final_task3.h5` : Model file for Task 3

- `Testing.ipynb` : Jupyter Notebook for testing the above models

- `Training.ipynb` : Jupyter Notebook for training/saving models for three tasks

- `env.yml` : Conda export

How to use?

1. Download the folder into an appropriate directory

2. Open Terminal and navigate to that particular folder using `cd` command

3. Activate and setup the conda environment

4. **To test any of the given tasks**: Open the `Testing.ipynb` jupyter notebook from the conda environment, and **in the last cell uncomment any one of the functions corresponding to the task1/2/3 that you wish to run**.

Uncomment and Run one of the below for corresponding task's model testing

In [4]:
```python
'''Run one of the below for corresponding task's model testing'''

test(model='DDQN', task='task1')
# test(model='DDQN', task='task2')
# test(model='DDQN', task='task3')
```
```
episode: 96 score: 500.0 mean of recent scores: 500.0
episode: 97 score: 500.0 mean of recent scores: 500.0
episode: 98 score: 500.0 mean of recent scores: 500.0
episode: 99 score: 500.0 mean of recent scores: 500.0
```

5. Run all the cells in this notebook to see the generated scores for that task. (Make sure that the notebook and the .h5 models are in the same directory)