ReadMe: (Instructions to run the code for DQN Fully Observable)

by

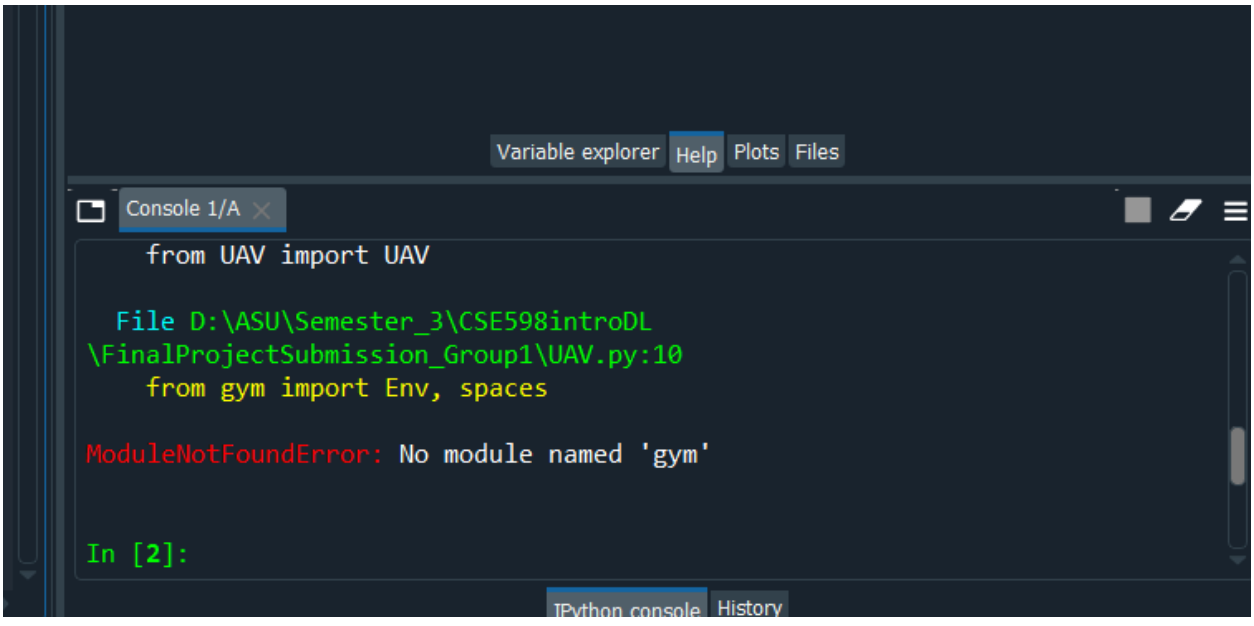
Whitchurch Muthumani (ASU ID: 1201000727)

Step1: Unzip the files from Whitchurch_sandbox onto your system

Name	Date modified	Type	Size
__pycache__	02-12-2022 17:59	File folder	
drone_basic	09-10-2022 12:04	PNG File	104 KB
moving_obstacle	19-11-2022 17:06	PNG File	3 KB
obstacle	09-10-2022 12:04	PNG File	1 KB
sandbox_1	09-10-2022 12:04	Python File	2 KB
target_basic	09-10-2022 12:04	PNG File	21 KB
UAV	01-12-2022 09:56	Python File	21 KB
variant1	02-12-2022 18:03	Python File	16 KB
variant1_failure	02-12-2022 18:02	Python File	16 KB
variant2	02-12-2022 18:04	Python File	15 KB
variant2_failure	02-12-2022 18:02	Python File	15 KB

Step 2: Open an IDE of your choice: [I used Spyder 4.2.5] for my dev work in Anaconda

Step 3: Open one of the Test run files: variant1.py and try running it. You will get an message saying 'gym' is not installed [gym is open AI gym]



Step 4:

```
>pip install gym==0.21.0
```

Step 5:

pip install opencv-python

Step 6:

```
pip install torch==1.12.1 torchvision==0.13.1 torchaudio==0.12.1
```

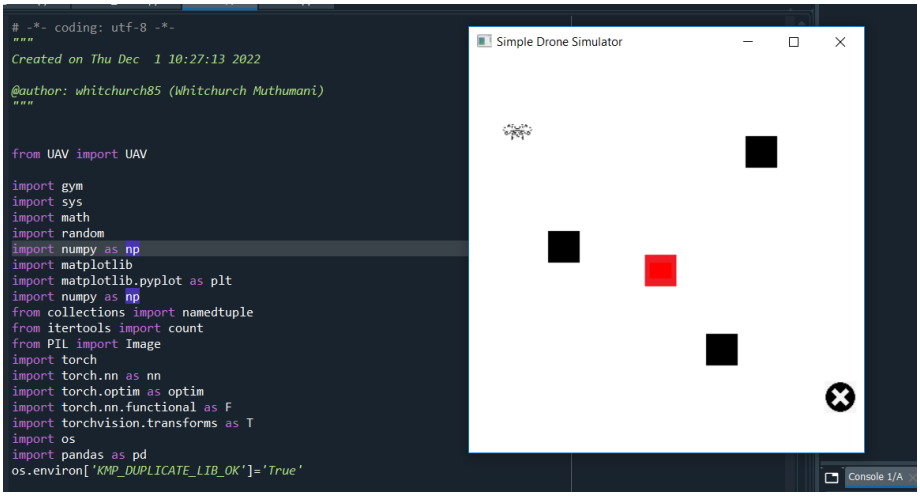
Step 7:

```
python -m pip install -U matplotlib
```

Step 8:

```
pip install pandas
```

Step 9: If successful, training will behind and Drone World Open AI Gym environment will start



Step 10: Run all the scripts to view the plots from the report:

- Variant1.py
- variant1_failure.py
- Variant2.py
- varint2_failire.py