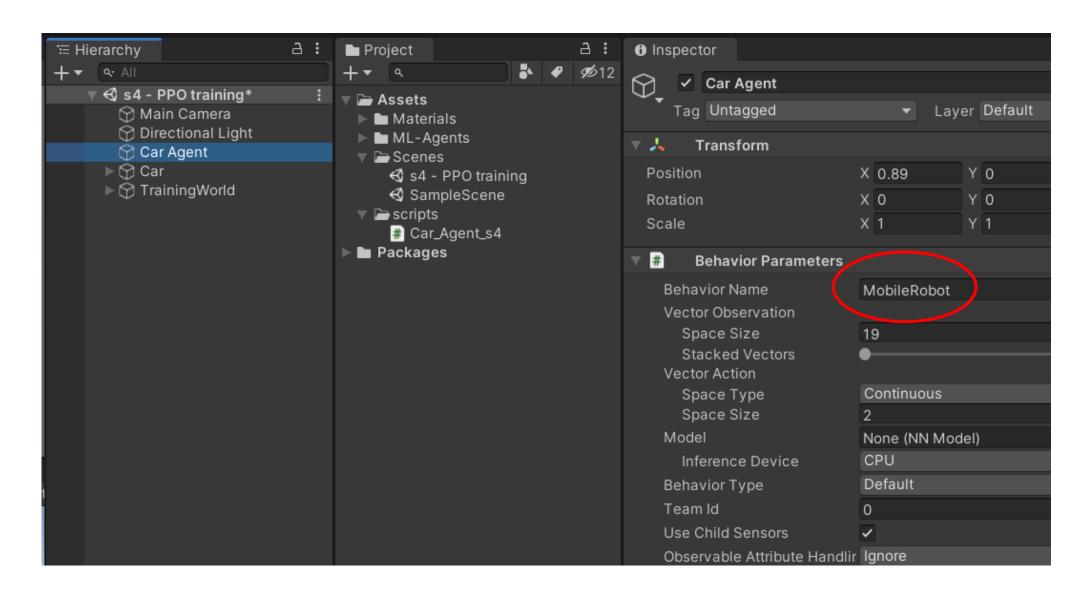
1. Change your behavior name



2. Create a configure file of the same name

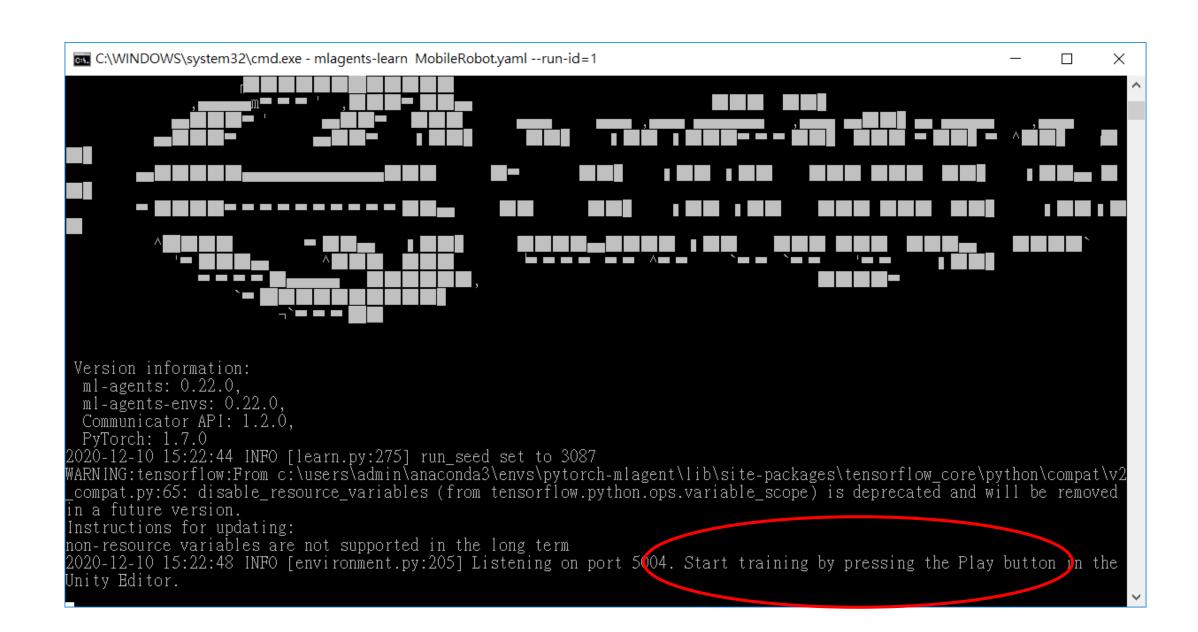
> 本機 > 桌面 / ml-agents-release_10 > config > ppo				pahaviors:
名稱	^	修改日期	類型	MobileRobot:
	ndomize	2020/11/20 上午 2020/11/20 上午		hyperparameters: batch_size: 64
■ 3DBallHard ■ Basic ■ Bouncer ■ CrawlerDynamic		2020/11/20 上午 2020/11/20 上午	YAML 檔案	buffer_size: 12000 learning_rate: 0.0003 beta: 0.001 epsilon: 0.2 lambd: 0.99
		2020/11/20 上午 2020/11/20 上午	YAML 檔案	
 CrawlerDynamicVariableSpeed CrawlerStatic CrawlerStaticVariableSpeed FoodCollector GridFoodCollector 	2020/11/20 上午 2020/11/20 上午	laguring gata sahadular lingag		
	2020/11/20 上午 2020/11/20 上午	YAML 檔案	normalize: true hidden_units: 128	
☐ GridFood ☐ GridWorl ☐ Hallway		2020/11/20 上午 2020/11/20 上午 2020/11/20 上午	YAML 檔案	num_layers: 2 vis_encode_type: simple reward_signals:
Match3 MobileRo	You can			bot.yaml from my
PushBloc Pyramids	Ci+Huh			
Pyramids Reacher SoccerTw		2020/11/20 上午 2020/11/20 上午 2020/11/20 上午	YAML 檔案	time_horizon: 1000 summary_freq: 12000 threaded: true

3. Start train

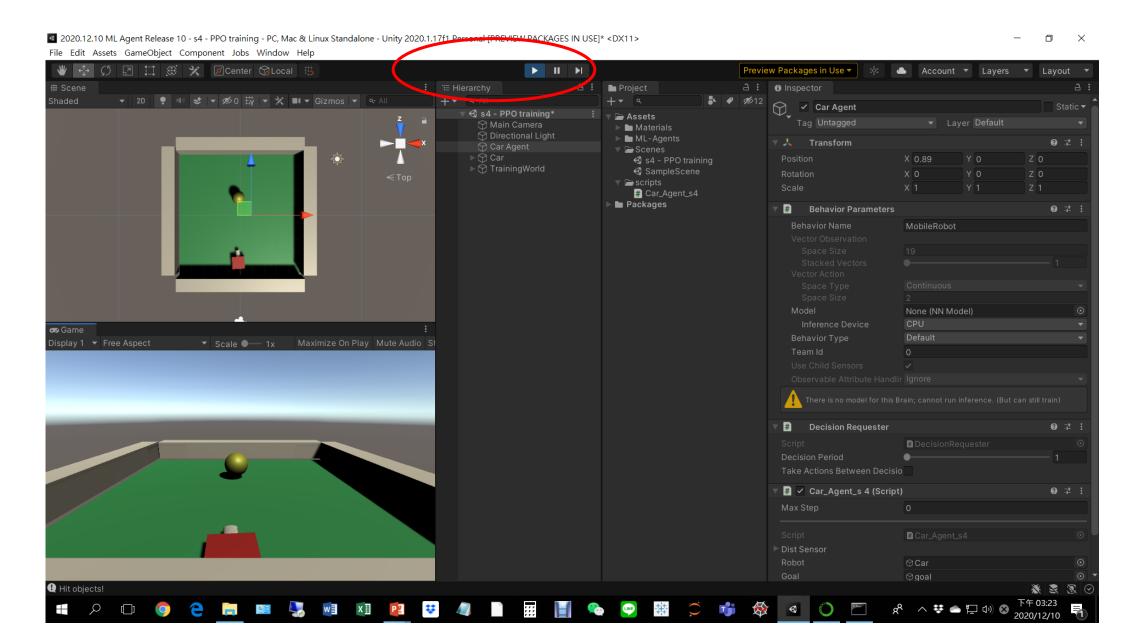
- 1. cd to the folder of your configuration file (C:\...\ml-agents-release_10\config\ppo)
- 2. mlagents-learn MobilRobot.yaml --run-id=1 --force

```
C:\WINDOWS\system32\cmd.exe
(PyTorch-MLAgent) C:\>
(PyTorch-MLAgent) C:\>cd C:\Users\admin\Desktop\ml-agents-release 10\config\ppo
(PyTorch-MLAgent) C:\Users\admin\Desktop\ml-agents-release 10\config\ppo>mlagents-learn MobileRobot.yaml -run-id=1
```

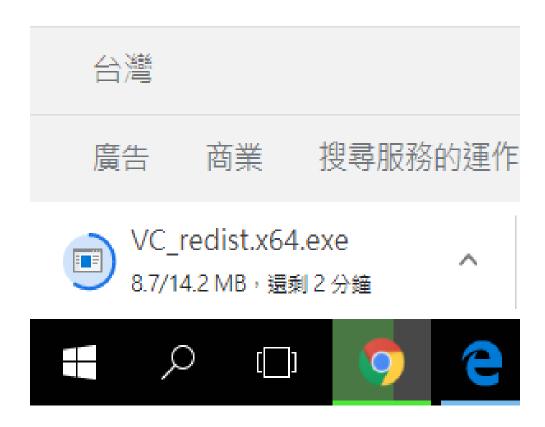
3. Start train



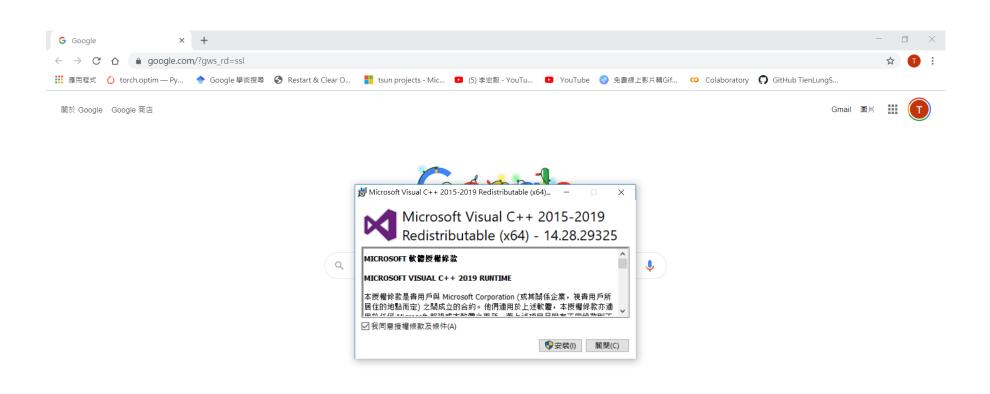
3. Start train

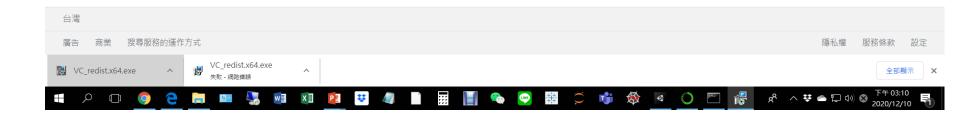


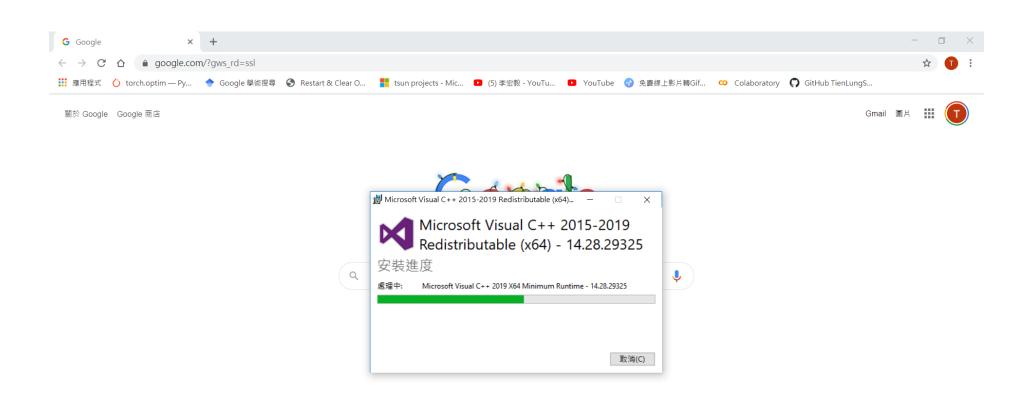
```
C:\WINDOWS\system32\cmd.exe
                                                                                                                                                     \times
(PyTorch-MLAgent) C:\Users\admin>cd C:\Users\admin\Desktop\m1-agents-release 10\config\ppo
(PyTorch-MLAgent) C:\Users\admin\Desktop\mi-agents-release_10\config\ppo>mlagents-learn MobileRobot.yaml -run-id=1
Microsoft Visual C++ Redistributable is not installed, this may lead to the DLL load failure.
It can be downloaded at https://aka.ms/vs/16/release/vc_redist.x64.exe
  File "c:\users\admin\anaconda3\envs\pytorch-mlagent\lib\runpy.py", line 193, in _run_module_as_main
       __main__", mod_spec)
  File "c:\users\admin\anaconda3\envs\pytorch-mlagent\lib\runpy.py", line 85, in run code
     exec(code, run globals)
  File "C:\Users\admin\Anaconda3\envs\PyTorch-MLAgent\Scripts\mlagents-learn.exe\__main__.py", line 4, in <module>
File "c:\users\admin\anaconda3\envs\pytorch-mlagent\lib\site-packages\mlagents\trainers\learn.py", line 2, in <module>
     from mlagents import torch utils
  File "c:\users\admin\anaconda3\envs\pytorch-mlagent\lib\site-packages\mlagents\torch_utils\__init__.py", line 1, in <m
odule>
     from mlagents.torch_utils.torch import torch as torch # noqa
  File "c:\users\admin\anaconda3\envs\pytorch-mlagent\lib\site-packages\mlagents\torch_utils\torch.py", line 29, in <mod
ule>
     import torch # noga I201
  File "c:\users\admin\anaconda3\envs\pytorch-mlagent\lib\site-packages\torch\__init__.py", line 128, in <module>
     raise err
OSError: [WinError 126] 找不到指定的模組。 Error loading "c:\users\admin\anaconda3\envs\pytorch-mlagent\lib\site-package
s\torch\lib\asmjit.dll" or one of its dependencies.
(PyTorch-MLAgent) C:\Users\admin\Desktop\ml-agents-release 10\config\ppo>
```

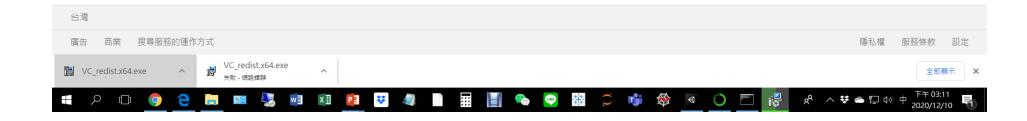


https://aka.ms/vs/16/release/vc_redist.x64.exe



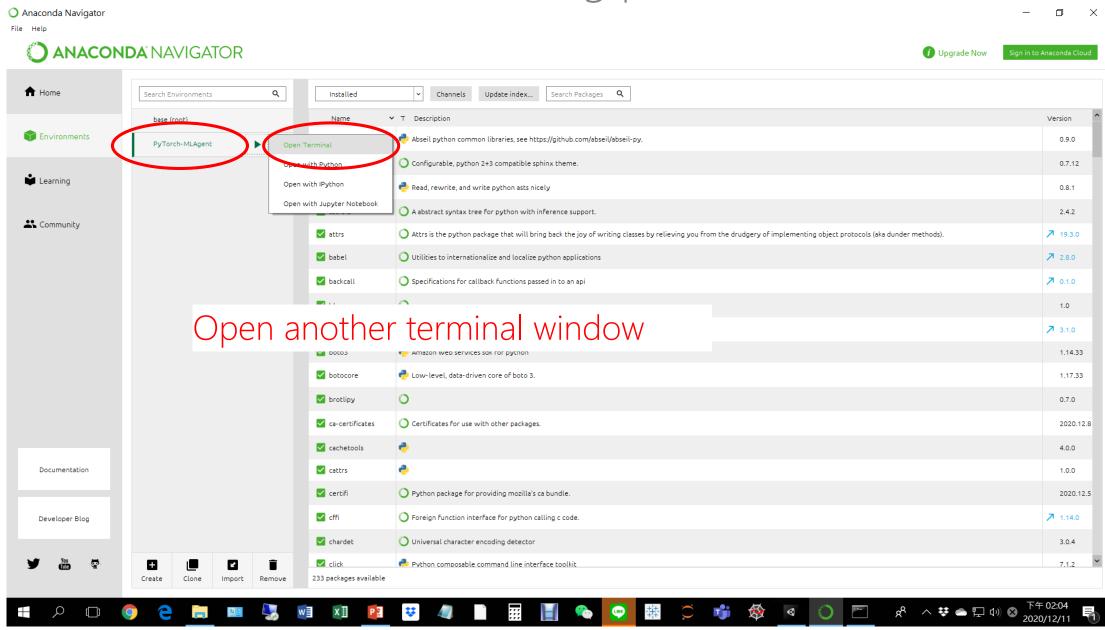




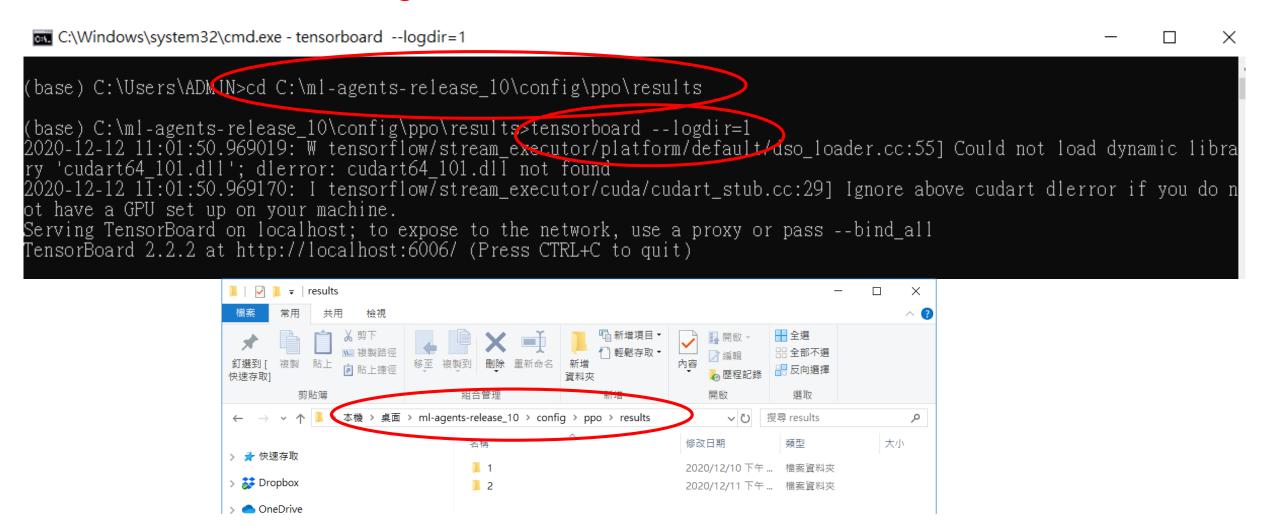


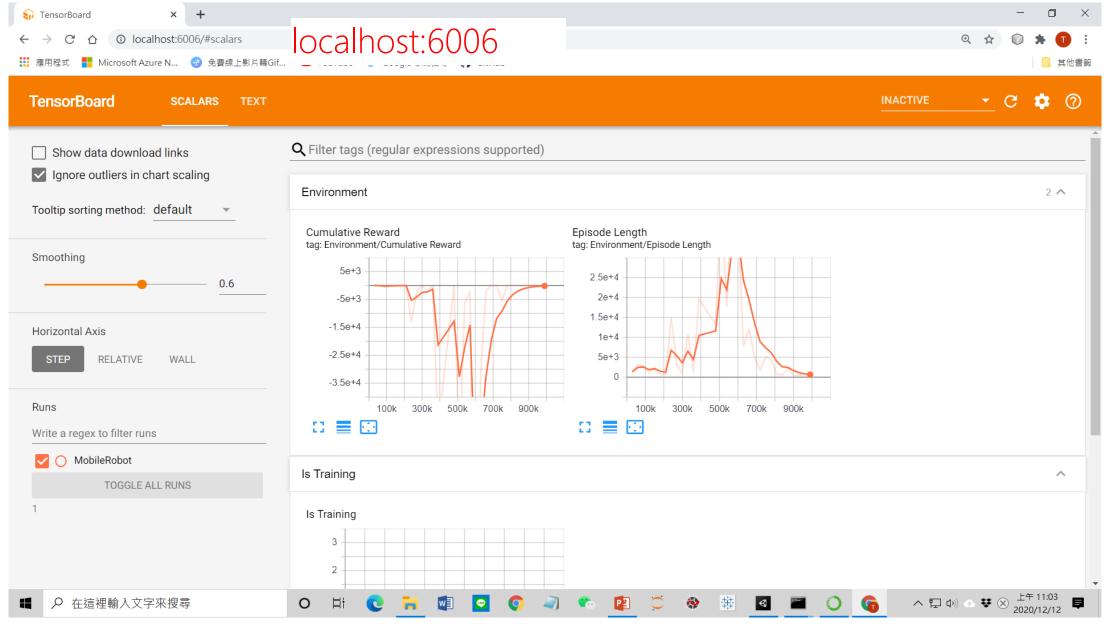
4. Training

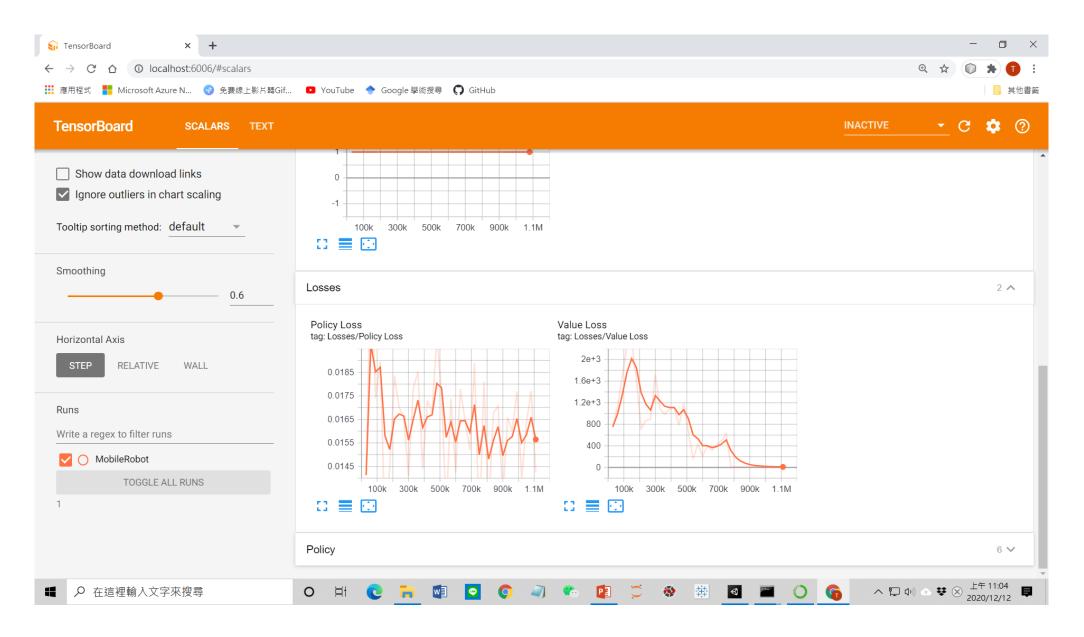
```
C:\Windows\system32\cmd.exe - mlagents-learn MobileRobot.yaml --run-id=2
                                                                                                                      X
          beta: 0.005
          epsilon:
                        0.2
                        0.95
          lambd:
                                                                                       vis encode type: simple
          num epoch:
          learning rate schedule:
                                         linear
                                                                                      reward signals:
        network_settings:
          normalize:
                        True
                                                                                       extrinsic:
          hidden_units: 512
                                                                                         gamma: 0.995
          num layers:
          vis encode type:
                                simple
                                                                                        strength: 1.0
         memory:
                        None
        reward signals:
                                                                                      keep checkpoints: 5
          extrinsic:
                                                                                      max_steps: 7000000
                        0.995
            gamma:
            strength:
                        1.0
                                                                                      time horizon: 1000
        init path:
                        None
                                                                                      summary_freq: 30000
        keep checkpoints:
                                500000
        checkpoint interval:
                                                                                      threaded: true
                        7000000
                        1000
        time horizon:
       summary_freq:
threaded:
                        30000
        self play:
                        None
        behavioral cloning:
                                None
                        pytorch
        framework:
2020–12–12 11:39:12 INFO [stats.py:139] MobileRobot. Step: 30000. 🖊ime Elapsed: 56.278 s. No episode was completed since
last summary. Training.
2020-12-12 11:39:49 INFO [stats.py:139] MobileRobot. Step: 60000. Time Elapsed: 93.340 s. Mean Reward: -14.130. Std of Re
ward: 10.538. Training.
```



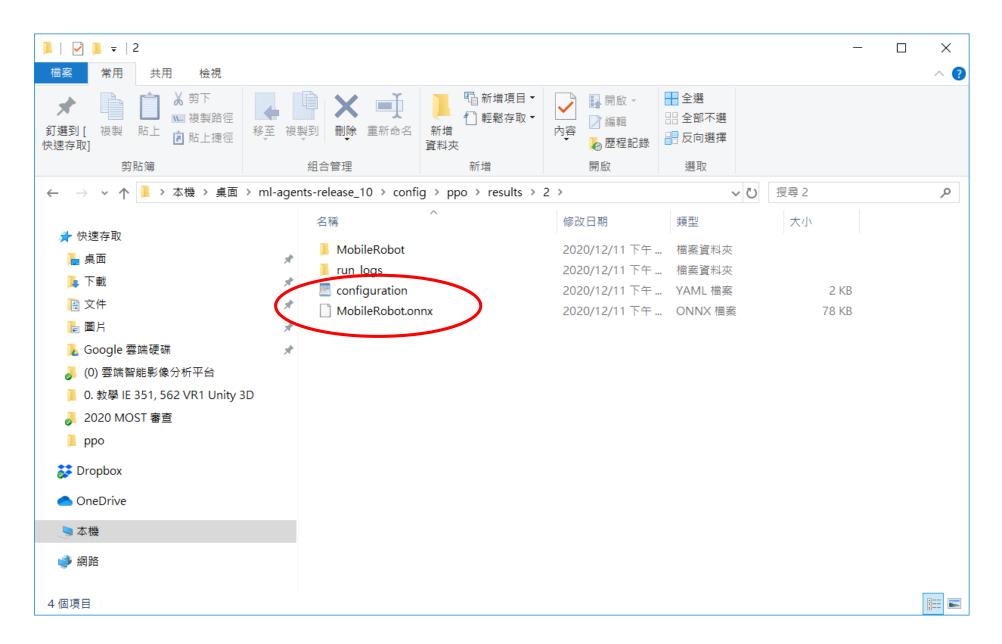
- 1. cd to the results folder (... ml-agents-release-10\config\ppo\results)
- 2. tensorboard --logdir=1



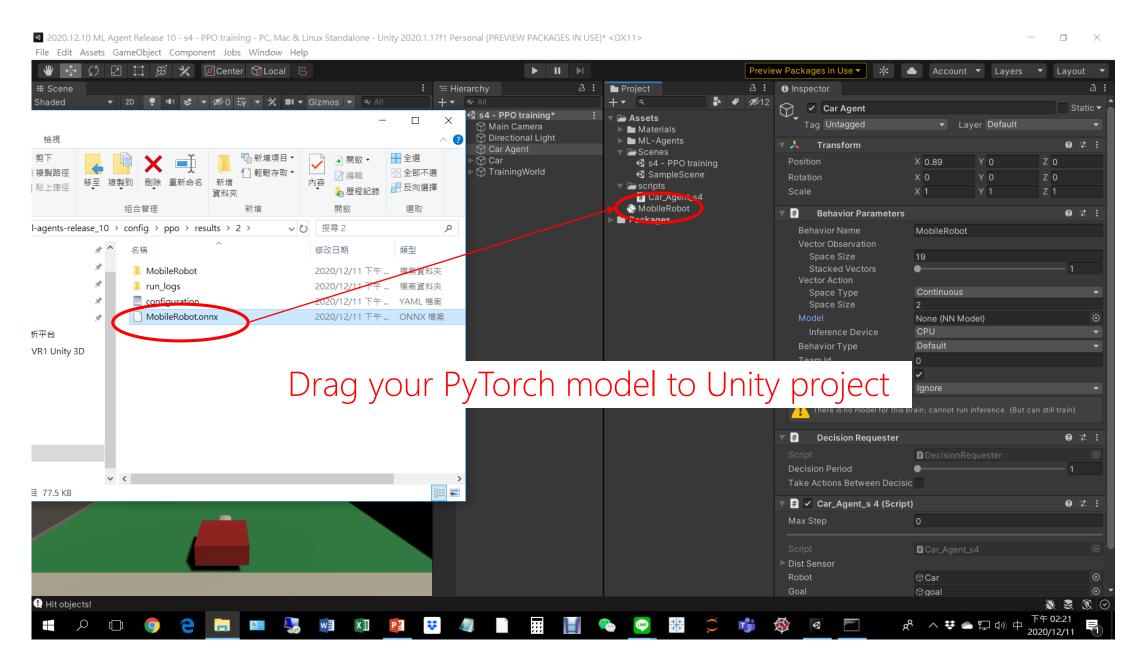




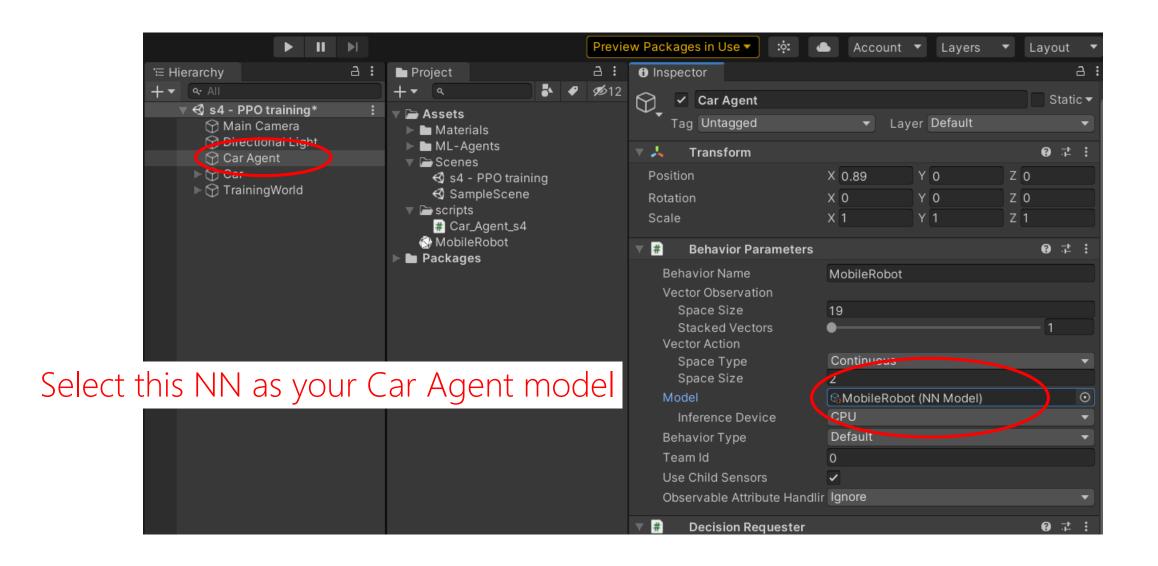
6. Finish training



7. Test



7. Test



7. Test

