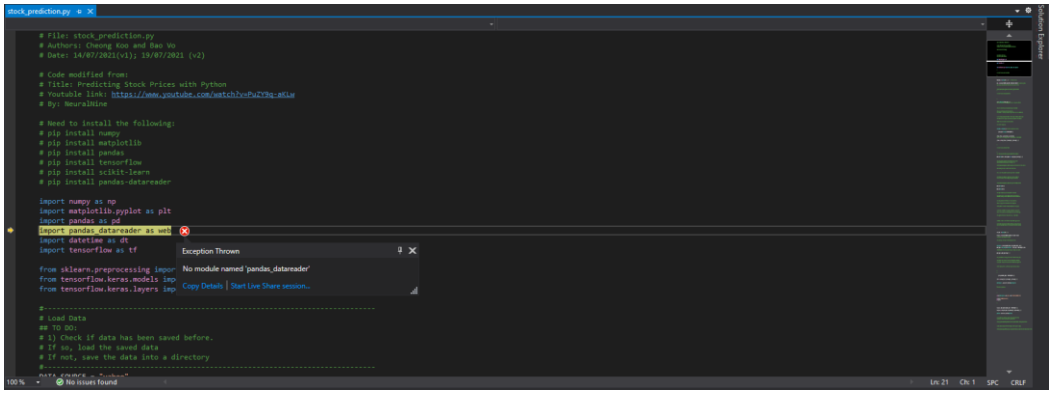
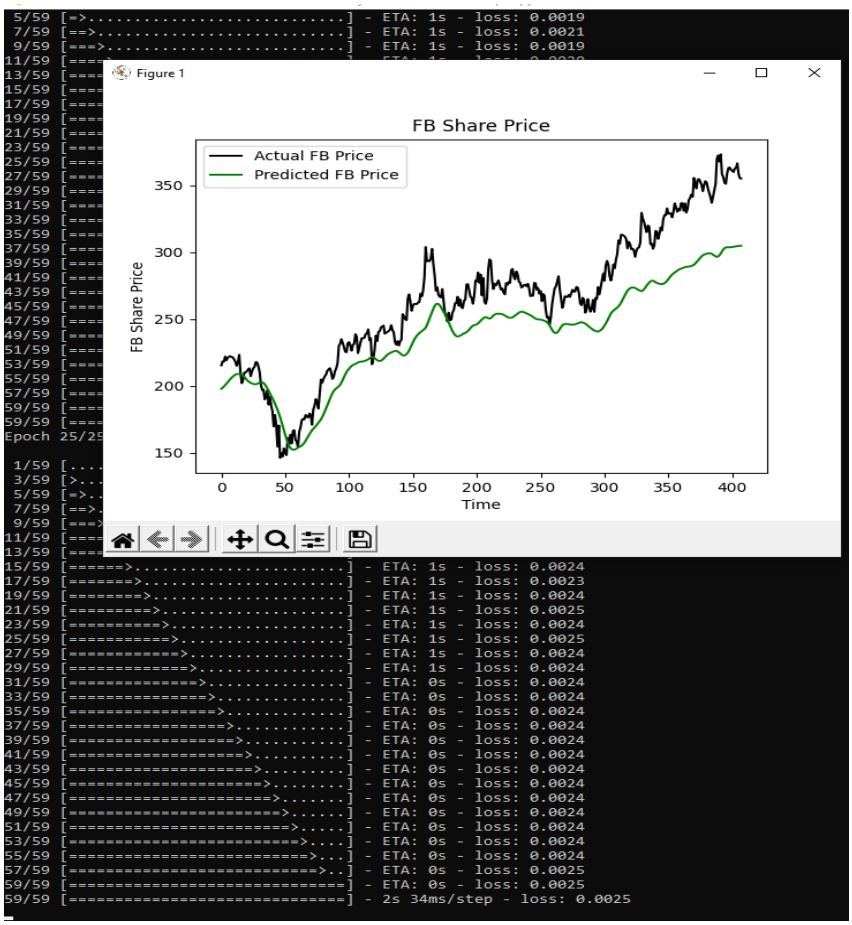
For task B1 my attempts to set up the environment was quite tricky. This was probably due to the type of code editor. I was using Visual Studio 2019 and was unsure on how to setup the virtual environment. However, after asking the tutor and looking for my specific code editor I was able to set up the virtual environment. There was also a problem with the requirements.txt file that needed to be downloaded from P1 where the pandas-datareader package was missing so I had to add it to the requirements file for the virtual environment to run.

P1 test:



v0.1 test:



```
 7/59 [==>............................] - ETA: 1s - loss: 0.0021
 9/59 [===>...........................] - ETA: 1s - loss: 0.0019
11/59 [====>..........................] - ETA: 1s - loss: 0.0020
13/59 [=====>.........................] - ETA: 1s - loss: 0.0021
15/59 [======>........................] - ETA: 1s - loss: 0.0023
17/59 [=======>.......................] - ETA: 1s - loss: 0.0024
19/59 [========>......................] - ETA: 1s - loss: 0.0024
21/59 [=========>.....................] - ETA: 1s - loss: 0.0023
23/59 [==========>....................] - ETA: 1s - loss: 0.0023
25/59 [===========>...................] - ETA: 1s - loss: 0.0022
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31/59 [==============>................] - ETA: 0s - loss: 0.0022
33/59 [===============>..............] - ETA: 0s - loss: 0.0021
35/59 [================>.............] - ETA: 0s - loss: 0.0021
37/59 [=================>............] - ETA: 0s - loss: 0.0021
39/59 [==================>...........] - ETA: 0s - loss: 0.0022
41/59 [===================>..........] - ETA: 0s - loss: 0.0022
43/59 [====================>.........] - ETA: 0s - loss: 0.0022
45/59 [=====================>........] - ETA: 0s - loss: 0.0021
47/59 [======================>.......] - ETA: 0s - loss: 0.0021
49/59 [=======================>......] - ETA: 0s - loss: 0.0021
51/59 [========================>.....] - ETA: 0s - loss: 0.0021
53/59 [=========================>....] - ETA: 0s - loss: 0.0021
55/59 [==========================>...] - ETA: 0s - loss: 0.0021
57/59 [===========================>..] - ETA: 0s - loss: 0.0021
59/59 [==============================] - ETA: 0s - loss: 0.0021
59/59 [==============================] - 2s 34ms/step - loss: 0.0021
Epoch 25/25

 1/59 [..............................] - ETA: 2s - loss: 0.0019
 3/59 [>.............................] - ETA: 1s - loss: 0.0025
 5/59 [=>............................] - ETA: 1s - loss: 0.0024
 7/59 [==>...........................] - ETA: 1s - loss: 0.0026
 9/59 [===>..........................] - ETA: 1s - loss: 0.0026
11/59 [====>.........................] - ETA: 1s - loss: 0.0025
13/59 [=====>........................] - ETA: 1s - loss: 0.0024
15/59 [======>.......................] - ETA: 1s - loss: 0.0024
17/59 [=======>......................] - ETA: 1s - loss: 0.0023
19/59 [========>.....................] - ETA: 1s - loss: 0.0024
21/59 [=========>....................] - ETA: 1s - loss: 0.0025
23/59 [==========>...................] - ETA: 1s - loss: 0.0024
25/59 [===========>..................] - ETA: 1s - loss: 0.0025
27/59 [============>.................] - ETA: 1s - loss: 0.0024
29/59 [=============>................] - ETA: 1s - loss: 0.0024
31/59 [==============>...............] - ETA: 0s - loss: 0.0024
33/59 [===============>..............] - ETA: 0s - loss: 0.0024
35/59 [================>.............] - ETA: 0s - loss: 0.0024
37/59 [=================>............] - ETA: 0s - loss: 0.0024
39/59 [==================>...........] - ETA: 0s - loss: 0.0024
41/59 [===================>..........] - ETA: 0s - loss: 0.0024
43/59 [====================>.........] - ETA: 0s - loss: 0.0024
45/59 [=====================>........] - ETA: 0s - loss: 0.0024
47/59 [======================>.......] - ETA: 0s - loss: 0.0024
49/59 [=======================>......] - ETA: 0s - loss: 0.0024
51/59 [========================>.....] - ETA: 0s - loss: 0.0024
53/59 [=========================>....] - ETA: 0s - loss: 0.0024
55/59 [==========================>...] - ETA: 0s - loss: 0.0024
57/59 [===========================>..] - ETA: 0s - loss: 0.0025
59/59 [==============================] - ETA: 0s - loss: 0.0025
59/59 [==============================] - 2s 34ms/step - loss: 0.0025
Prediction: [[304.59366]]
Press any key to continue . . .
```

My understanding of the code base from v0.1 is that adding too many layers will cause more time training and possibly overfit if there are too many layers of sophistication. The model predicting lower than the actual than it actual is if there isn't too big of a difference is better than if it overestimates. The prediction given at the end is not a guarantee because it's only the machine's educated guess based on the last 60 days.