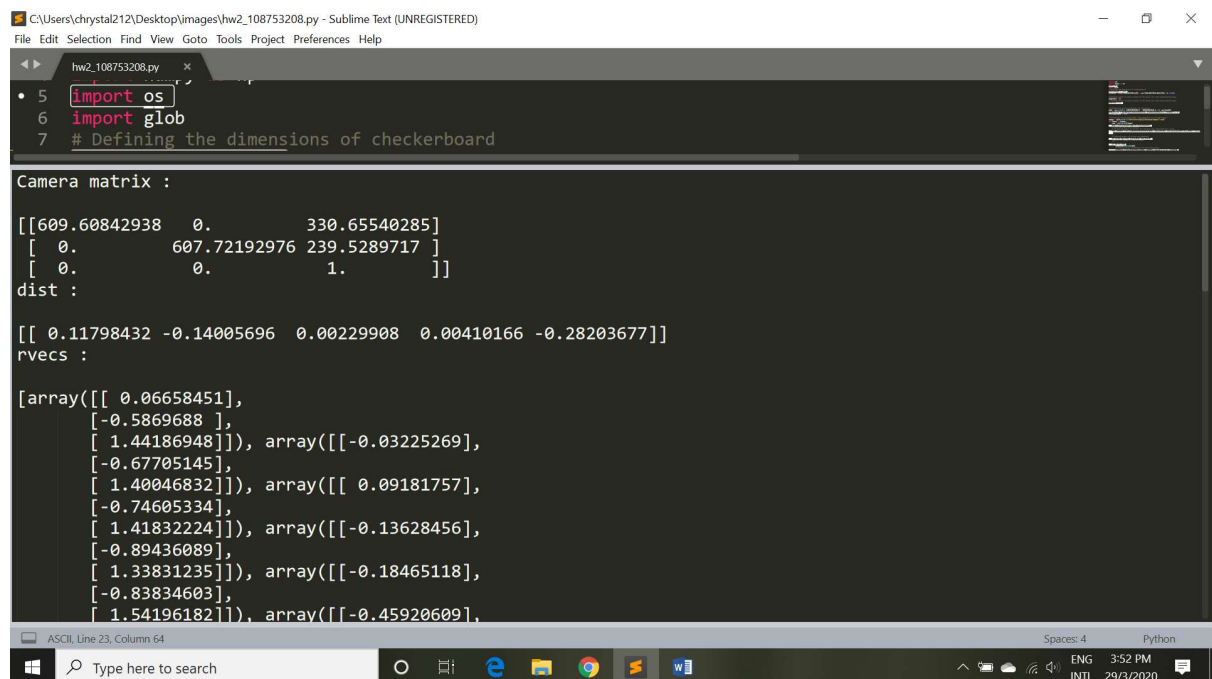
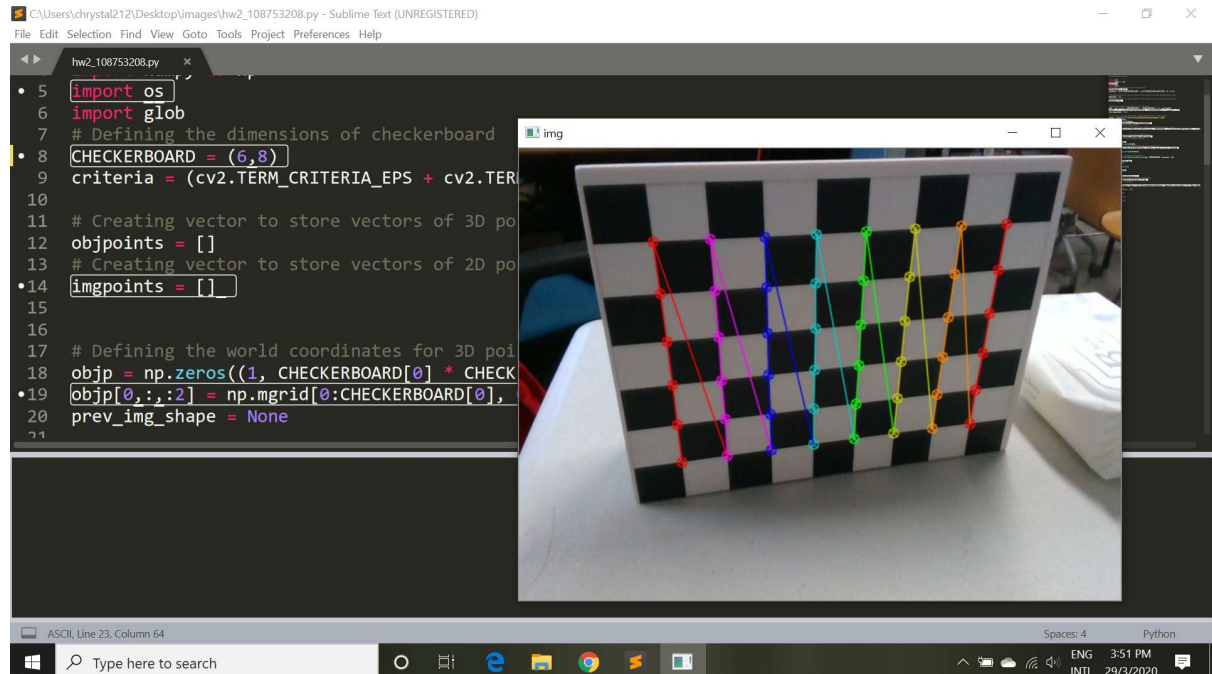


系級:資科所碩一 學號:108753208 姓名:葉冠宏

1. Follow the procedure shown in Camera Calibration Using OpenCV to get yourself familiar with the calibration process. (You may use the code and calibration pattern provided in the link.)
2. Include the screenshot of corner tracking the camera parameters in a pdf/doc.



```
C:\Users\chrystal212\Desktop\images\hw2_108753208.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

hw2_108753208.py
• 5 import os
  6 import glob
  7 # Defining the dimensions of checkerboard

[ 1.54196182]], array([[ -0.45920609],
[ -0.97839661],
[ 1.47698949]], array([[ 0.48451562],
[ -0.84318224],
[ 1.45299488]], array([[ -0.28462327],
[ -0.61897141],
[ -1.54076853]], array([[ 0.21292369],
[ -0.60792208],
[ 1.48145586]], array([[ 0.13650033],
[ -0.4785526 ],
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[ -0.4774243 ],
[ 1.55335922]], array([[ 0.2133031 ],
[ -0.43005621],
[ 1.43625397]], array([[ 0.19817287],
[ -0.35901261],
[ 1.50257527]], array([[ -0.01684776],
[ -0.62865589],
[ 1.4665884  ]]), array([[ -0.06029325],
[ -0.75103179],
[ 1.44344303]], array([[ -0.00827822],

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O [Taskbar icons] [System tray icons] ENG 3:53 PM
INTL 29/3/2020
```

```
C:\Users\chrystal212\Desktop\images\hw2_108753208.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

hw2_108753208.py
• 5 import os
  6 import glob
  7 # Defining the dimensions of checkerboard

[ 1.44344303]], array([[ -0.00827822],
[ -0.47258439],
[ 1.55722975]]])
tvecs :
[array([[ 0.36401872],
[ -4.29242989],
[17.19592476]]]), array([[ 1.60050308],
[ -4.59155098],
[17.78546162]]]), array([[ 2.24919759],
[ -5.57592476],
[15.48532126]]]), array([[ 0.41974662],
[ -4.92075553],
[15.75987208]]]), array([[ 0.08739869],
[ -2.29068146],
[15.58243796]]]), array([[ -1.03098797],
[ -1.09660337],
[17.09988778]]]), array([[ 3.06470758],
[ -4.53339268],
[14.3132366  ]]), array([[ -4.59340467],
[ -0.62724973],

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O [Taskbar icons] [System tray icons] ENG 3:53 PM
INTL 29/3/2020
```

```
hw2_108753208.py
• 5 import os
  6 import glob
  7 # Defining the dimensions of checkerboard
```

```
[-4.53339268],
[14.3132366 ]]), array([[ -4.59340467],
[-0.62724973],
[14.37549177]]]), array([[ 3.60961448],
[-3.0933817 ],
[11.91777124]]]), array([[ 4.39088445],
[-4.10980906],
[19.75024558]]]), array([[ 0.89615959],
[-1.09110545],
[20.67286166]]]), array([[ 6.36055483],
[-6.03039465],
[19.98107783]]]), array([[ 7.3612368 ],
[-4.29767576],
[20.18067009]]]), array([[ 0.10428562],
[-5.24402006],
[21.09818099]]]), array([[ -2.38382174],
[-6.39040192],
[20.60731594]]]), array([[ 2.71470305],
[-2.68635918],
[21.53511623]]])
[Finished in 164.0s]
```

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Spaces: 4 Python

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