컴비과제5

2019115602 전찬욱

```
시작
   image dir = "./images"
   images = [f for f in os.listdir(image dir) if f.endswith('.jpg')]
  images = images[7:]
  images
  ♦ 0.0s
['KakaoTalk_20240530_125615705_07.jpg',
'KakaoTalk 20240530 125615705 08.jpg',
 'KakaoTalk 20240530 125615705 09.jpg',
'KakaoTalk 20240530 125615705 10.jpg',
'KakaoTalk 20240530 125615705 11.jpg',
'KakaoTalk 20240530 125615705 12.jpg',
'KakaoTalk 20240530 125615705 13.jpg',
'KakaoTalk 20240530_125615705_14.jpg',
'KakaoTalk 20240530 125615705 15.jpg',
 'KakaoTalk 20240530 125615705 16.jpg',
'KakaoTalk_20240530_125615705_17.jpg',
'KakaoTalk 20240530_125615705_18.jpg',
 'KakaoTalk 20240530 125615705 19.jpg',
'KakaoTalk 20240530 125615705 20.jpg',
'KakaoTalk 20240612 164344960.jpg',
 'KakaoTalk 20240612 164344960 01.jpg',
 'KakaoTalk 20240612 164344960 02.jpg']
```

```
sift

√ for image in images:
     image_path = os.path.join(image_dir, image)
     image, corners, ids = detect_markers(image_path)
     _image = image_path.split(".")[1]
     with open(f".{_image}.sift", "w") as output:
         output.write(f"{len(corners)*4} 128\n")
         image, corners, ids = detect_markers(image_path)
         for i, corner in enumerate(corners):
             for j, c in enumerate(corner[0]):
                 output.write(f"{c[0]} {c[1]} 0 0\n")
                 output.write("0 " * 128+"\n") # Write the
                 # Check if this is not the last element
                     # output.write("\n")
```

output.close()

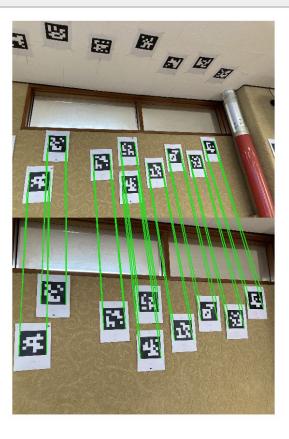
```
for index1, image1 in enumerate(images):
    for index2, image2 in enumerate(images):
        if index1 == index2:
            continue
        write_match_file(image1, image2, index1, index2)
```

```
match all.txt ×
C.\CV_assignment_3\images\kakaoTalk_20240012_104344900_02.Tpq
C:\cv assignment 5\images\KakaoTalk 20240530 125615705 05.jpg
0 1 2 3 4 5 6 7 8 9 10 11
0 1 2 3 4 5 6 7 8 9 10 11
C:\cv_assignment_5\images\KakaoTalk_20240612_164344960_02.jpg
C:\cv_assignment_5\images\KakaoTalk_20240530_125615705_06.jpg
0 1 2 3 8 9 10 11
20 21 22 23 32 33 34 35
C:\cv assignment 5\images\KakaoTalk 20240612 164344960 02.jpg
C:\cv_assignment_5\images\KakaoTalk_20240530_125615705_07.jpg
4 5 6 7
4 5 6 7
C:\cv assignment 5\images\KakaoTalk 20240612 164344960 02.jpg
C:\cv_assignment_5\images\KakaoTalk_20240530_125615705_08.jpg
4 5 6 7 8 9 10 11
8 9 10 11 12 13 14 15
C:\cv_assignment_5\images\KakaoTalk_20240612_164344960_02.jpg
C:\cv_assignment_5\images\KakaoTalk_20240530_125615705_11.jpg
0 1 2 3 4 5 6 7 8 9 10 11
0 1 2 3 8 9 10 11 16 17 18 19
C:\cv_assignment_5\images\KakaoTalk_20240612_164344960_02.jpg
C:\cv_assignment_5\images\KakaoTalk_20240612_164344960.jpg
0 1 2 3 4 5 6 7 8 9 10 11
0 1 2 3 4 5 6 7 8 9 10 11
C:\cv_assignment_5\images\KakaoTalk_20240612_164344960_02.jpg
C:\cv assignment 5\images\KakaoTalk 20240612 164344960 01.jpg
0 1 2 3 4 5 6 7 8 9 10 11
0.1 2 3 4 5 6 7 8 9 10 11
```

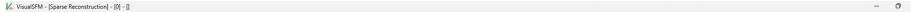




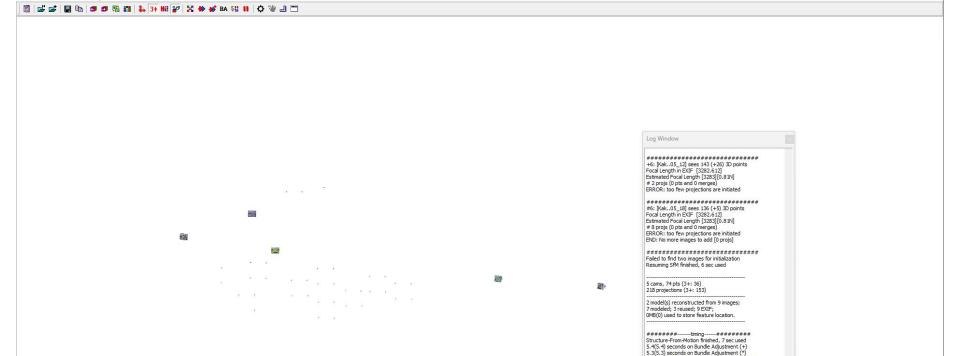








File SfM View Tools Help



Run full 3D reconstruction, finished
Totally 7.000 seconds used

