CS x476 - Fall 2021

Project 5: Camera Calibration and Fundamental Matrix Estimation with RANSAC

Setup:

- 1. Install Miniconda. (If you already have Miniconda installed, you can skip this step)
- 2. Create a conda environment using the appropriate terminal and command.
 - On Windows, open the installed "Anaconda Powershell Prompt".
 - On MacOS and Linux, you can open a terminal window.
 - Modify and run the command in the terminal, replace the "<OS>" in the following command with your OS (Linux, Mac, Windows): conda env create -f

```
proj5_configs/proj5_env_<OS>.yml
```

- 3. Check if the cv_proj5 environment has been created properly.
 - Run: conda env list
- 4. Activate the conda environment.
 - Run: conda activate cv_proj5
 - To deactivate it, run: conda deactivate
- 5. Install the project packages.
 - Run: pip install -e . inside the repo folder.
- 6. Open the jupyter notebook to work on the project.
 - Run: jupyter notebook ./proj5_code/proj5.ipynb

Testing & Submission:

- 1. Ensure that all sanity checks are passing
 - Run: pytest proj5_unit_tests inside the proj5_release folder.
- 2. Compress your code into a zip for submission
 - Run: python zip_submission.py --gt_username <your_gt_username>
- 3. Submit the zip to Gradescope for the code part
- 4. Save the PowerPoint as PDF and submit the PDF to Gradescope for the report part