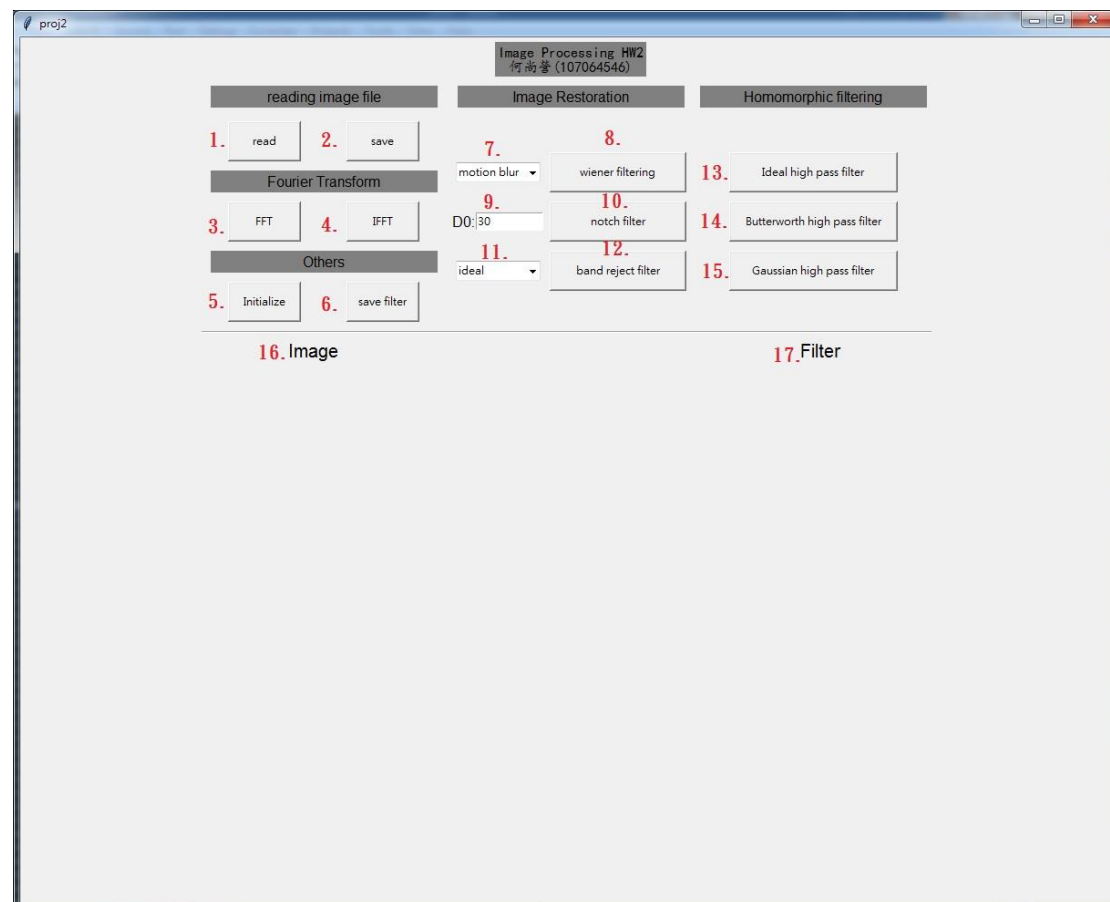


Installation

- Require packages
 1. Anaconda python 3.6
- How to run

use command `python main.py` under the path `.\HW1` with Anaconda Prompt, or any other compiler open `.\HW1\main.py` just like Jupyter Notebook, spyder, and run it then you can see the result.

How to use in GUI



1. Read image
2. Save image showing in 16.
3. Perform Fourier transform
4. Perform inverse Fourier transform
5. Initialize the image to original image
6. Save filter showing in 17.
7. Mode of wiener filter
 - ◆ motion blur: using for image 2.jpg
 - ◆ general blur: using for image 1.jpg

8. Perform wiener filter
 9. Euclidean distance between spot and pixels around it, default is 30
 10. Perform notch filter
 11. Mode of band reject filter
 12. Perform band reject filter
 13. Perform image enhancing by ideal high pass filter
 14. Perform image enhancing by band reject high pass filter
 15. Perform image enhancing by Gaussian high pass filter
 16. Showing result of image
 17. Showing result of filter
- Example: 1.(choose `.\test images\5.jpg`)→3.→13.→4.