This is a semi-automatic Python code to detect and measure the Drosophila suzukii wing size. The code is written with reference to the paper **Drosophila suzukii wing spot size is robust to developmental temperature** written by Ceferino Varón-González et.al.

Note:

- Package used: OpenCV
- Python version: 3.10

How to use:

Go to mine -> final.py to run the code.

Several Things TODO:

- Change the Global variable <name> and <path> to the route of the image.
- Adjust the landmarks to cut the unwanted part. This can be improved by using ImageJ to detect the landmarks.

Description about each folder:

- mine: Stores python files used for the project. Compile final.py to run.
- pics: Stores original images captured from microscope
- Dryad files: The original source code from the author of the paper
- data: File line_coordinator.txt is used to draw the reference line