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