

Image Processing Project: Image manipulation program GUI

To Instructor:

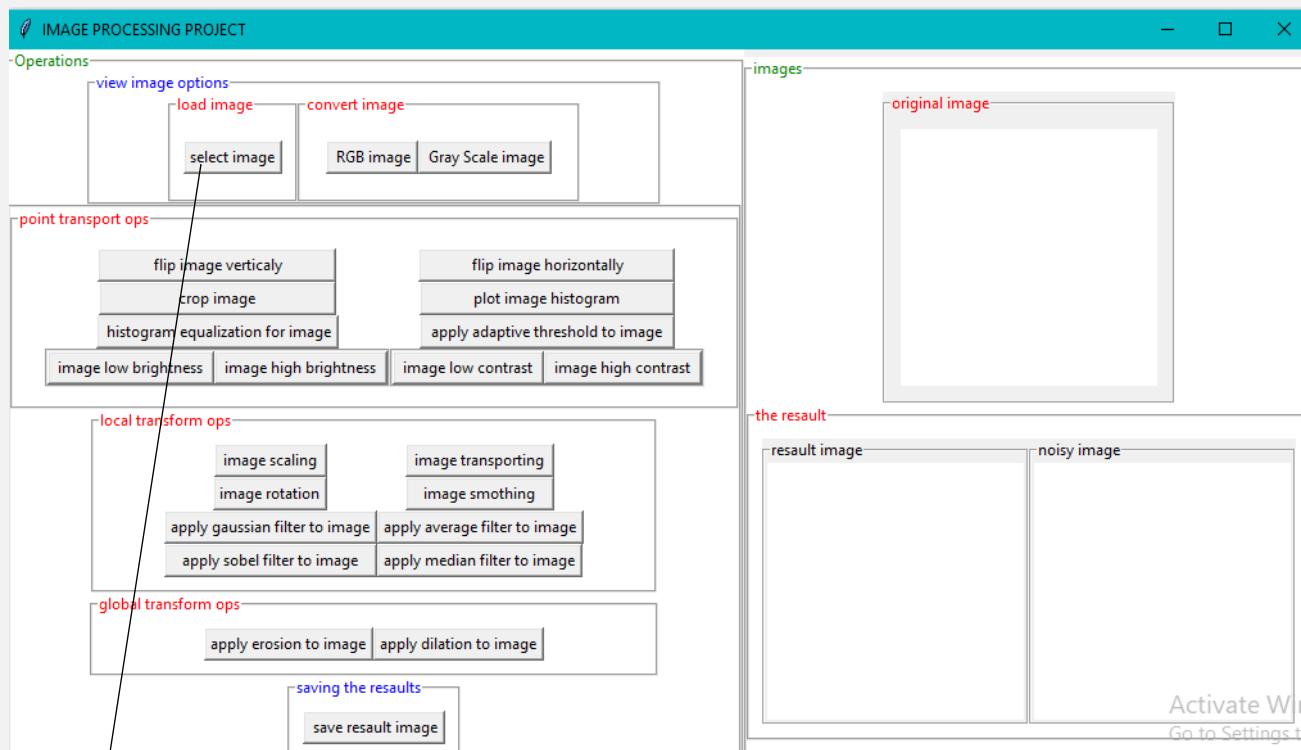
Dr. Mohamed Berbar

Submitted by:

1- Amira Sami Saad Omar – 1700067

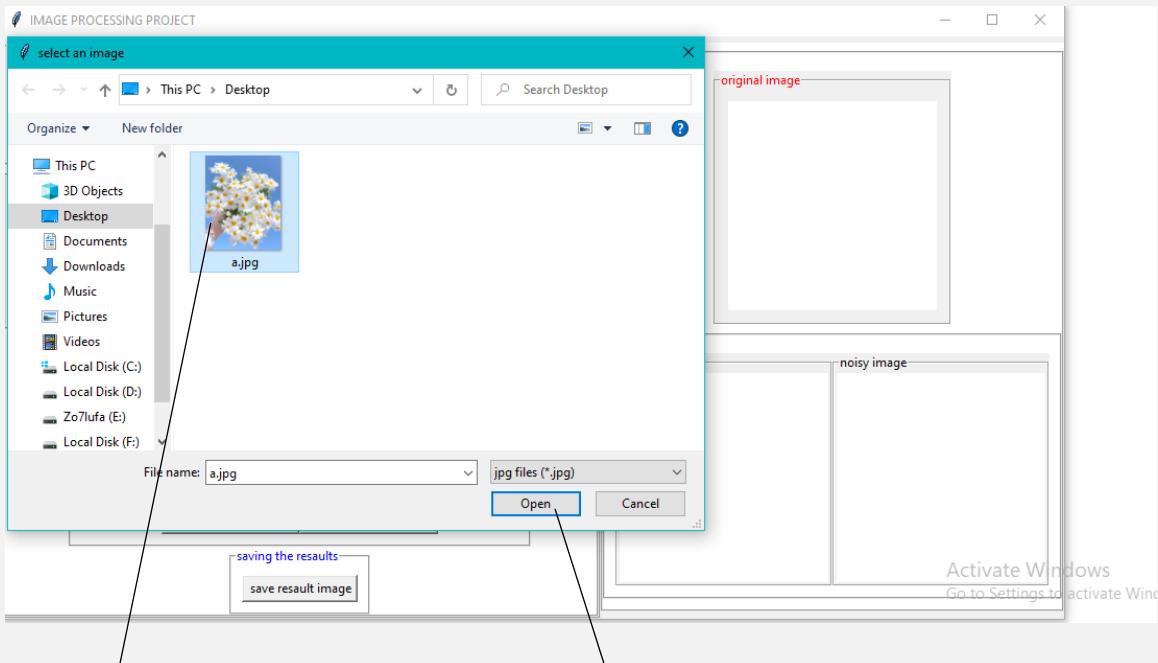
The main Interface

1. When you run the project the following window will appear to you.



CLICK HERE TO BROWSE IMAGES

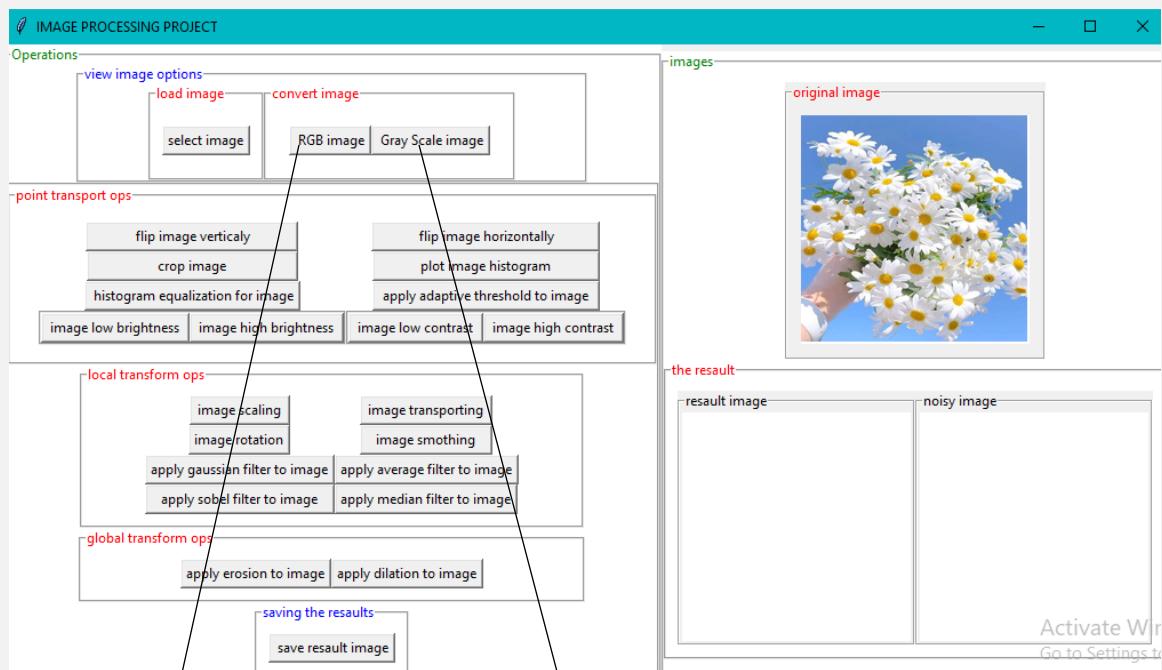
2. When you click select image button, the dialog box will appear. Then choose your photo and click open.



Click image to select it

Click open to load your image

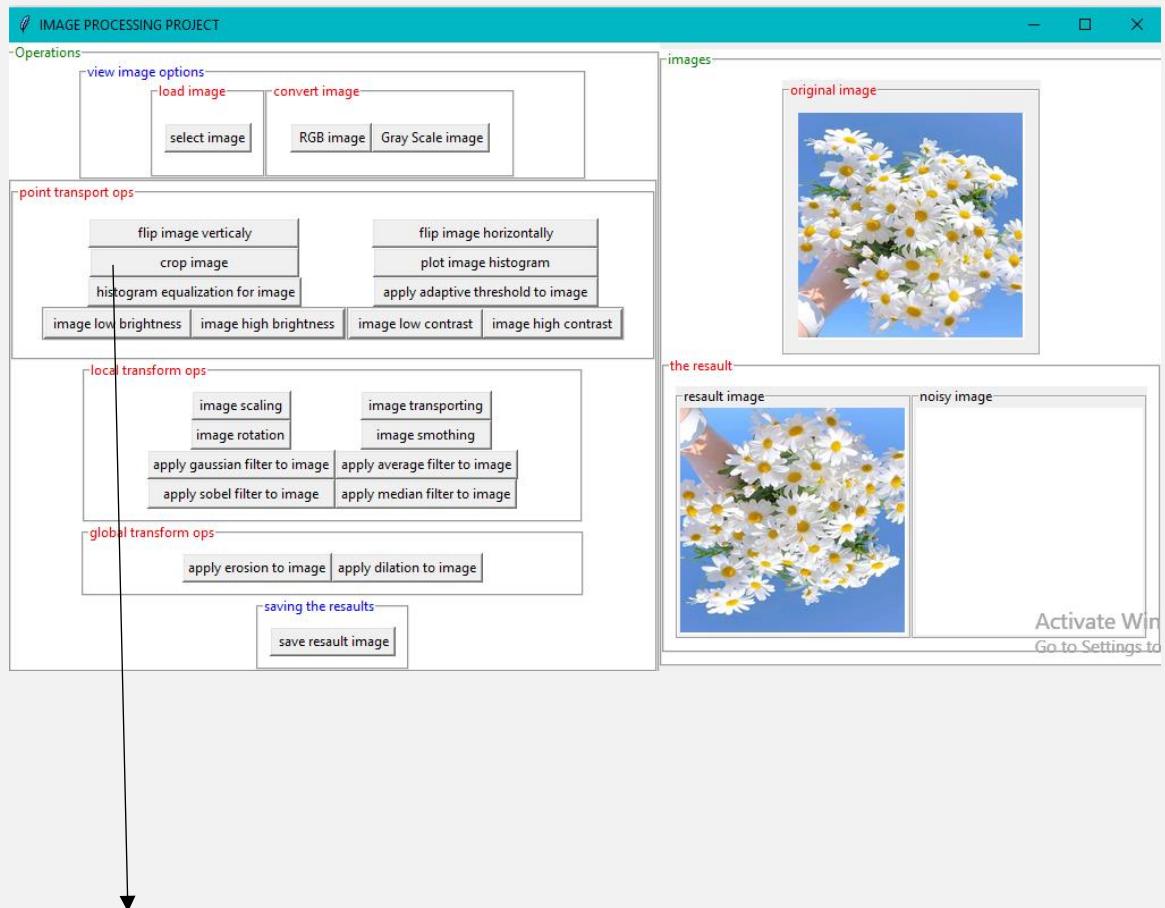
3. -The image will display in RGB as a default color and you can convert it by click in Gray Scale image.



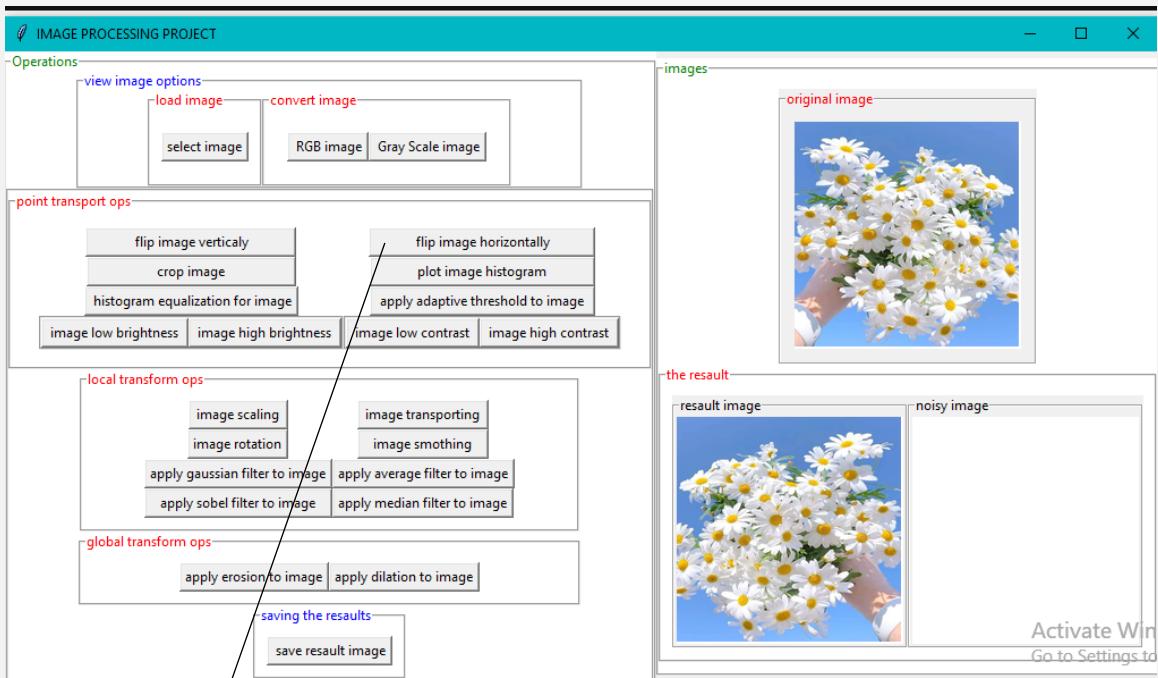
TO SHOW RGB IMAGE

TO SHOW GRAY SCALE IMAGE

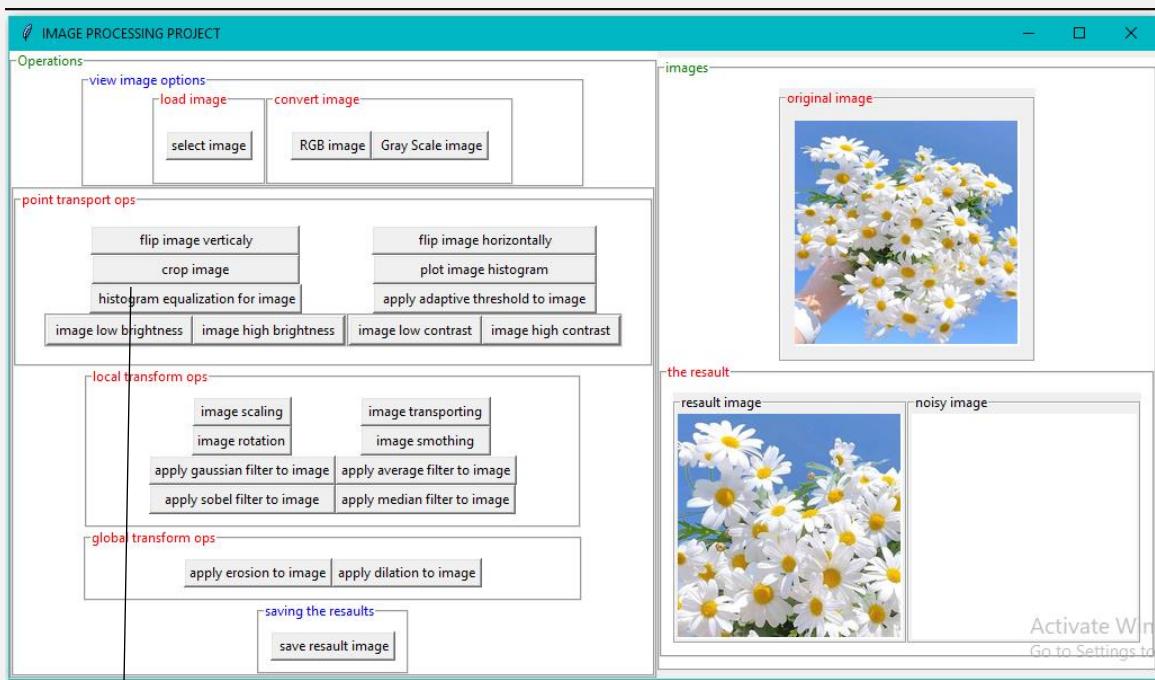
4- YOU CAN VIEW THE IMAGE AFTER APPLING THE OPERATIONS IN THE RESULT WINDOW



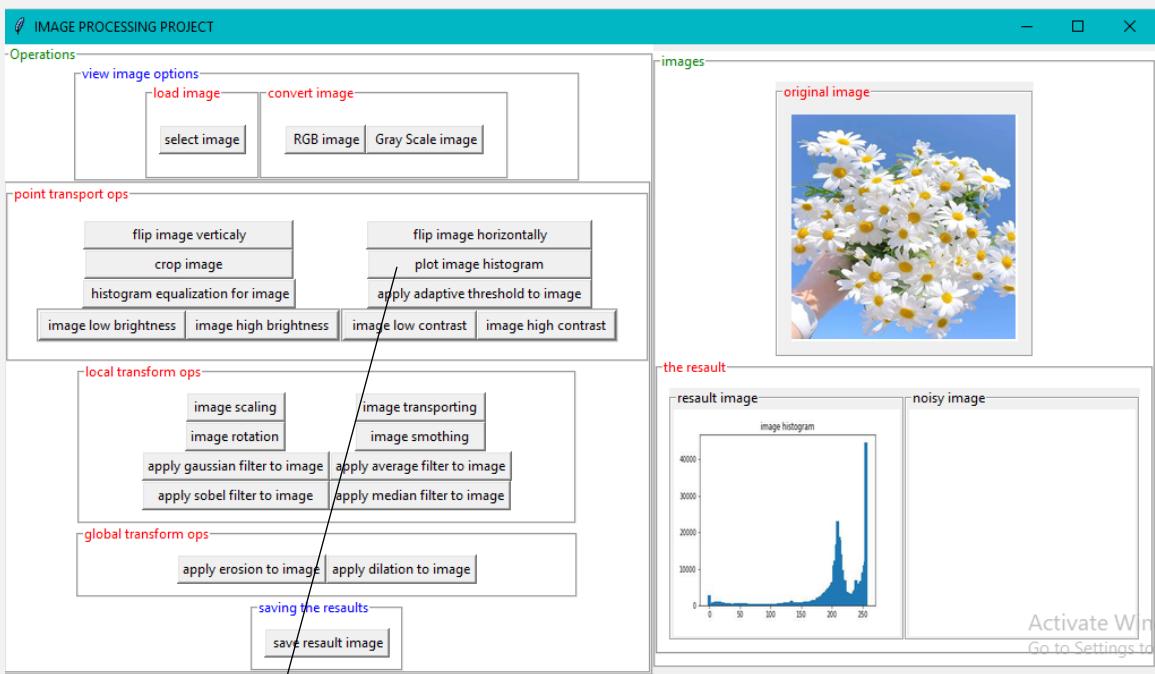
FLIP IMAGE VERTICALLY



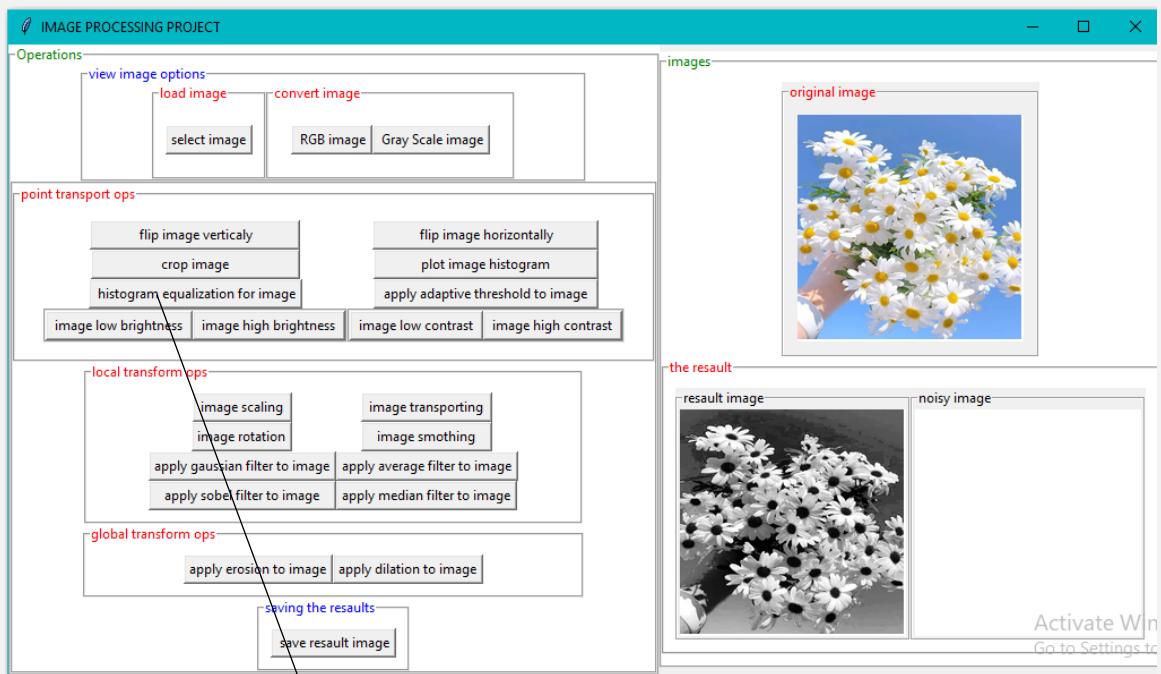
FLIP IMAGE HORIZONTALY



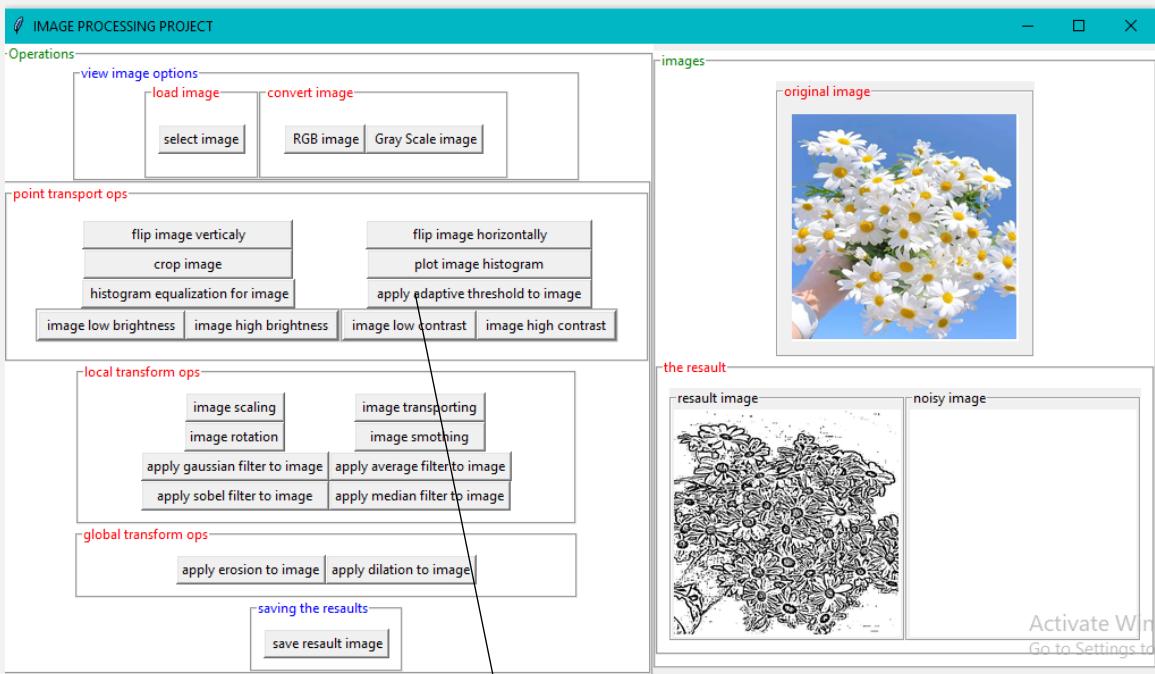
CLIP THE IMAGE



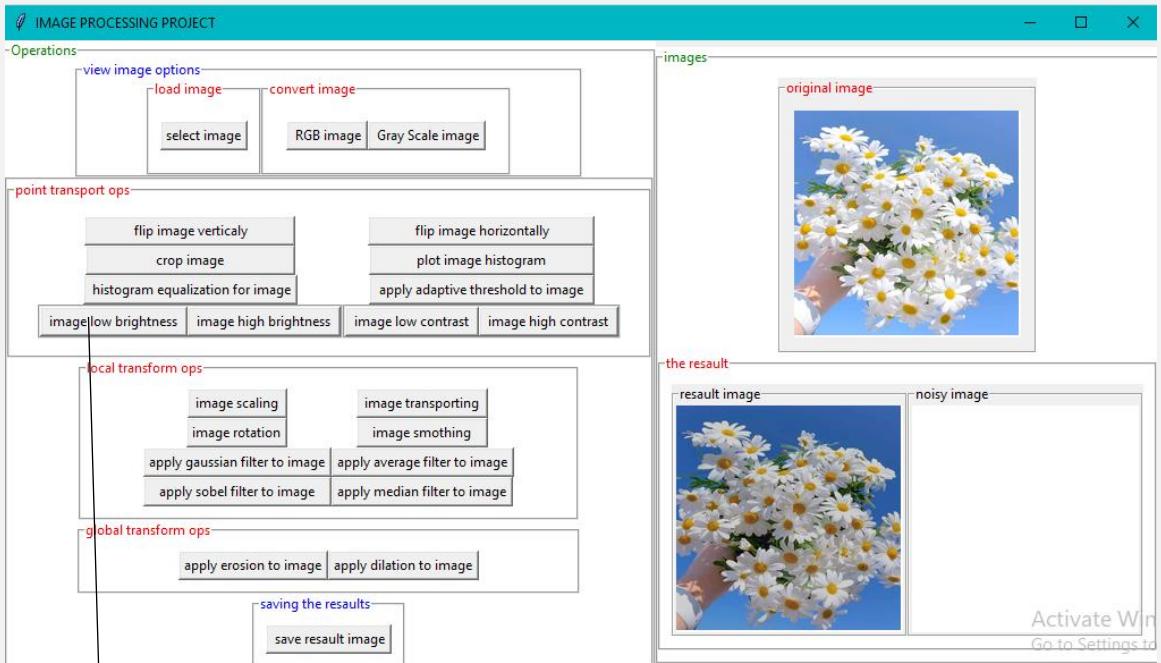
PLOT IMAGE HISTOGRAM



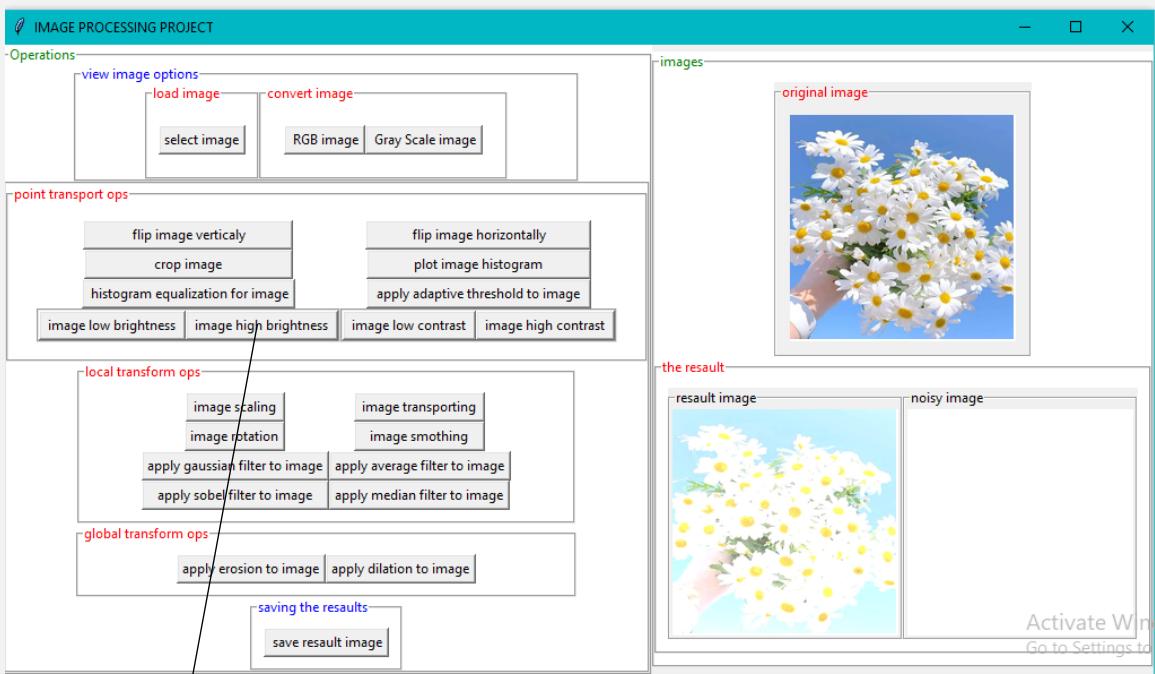
APPLY HISTOGRAM EQUALIZATION FOR THE IMAGE



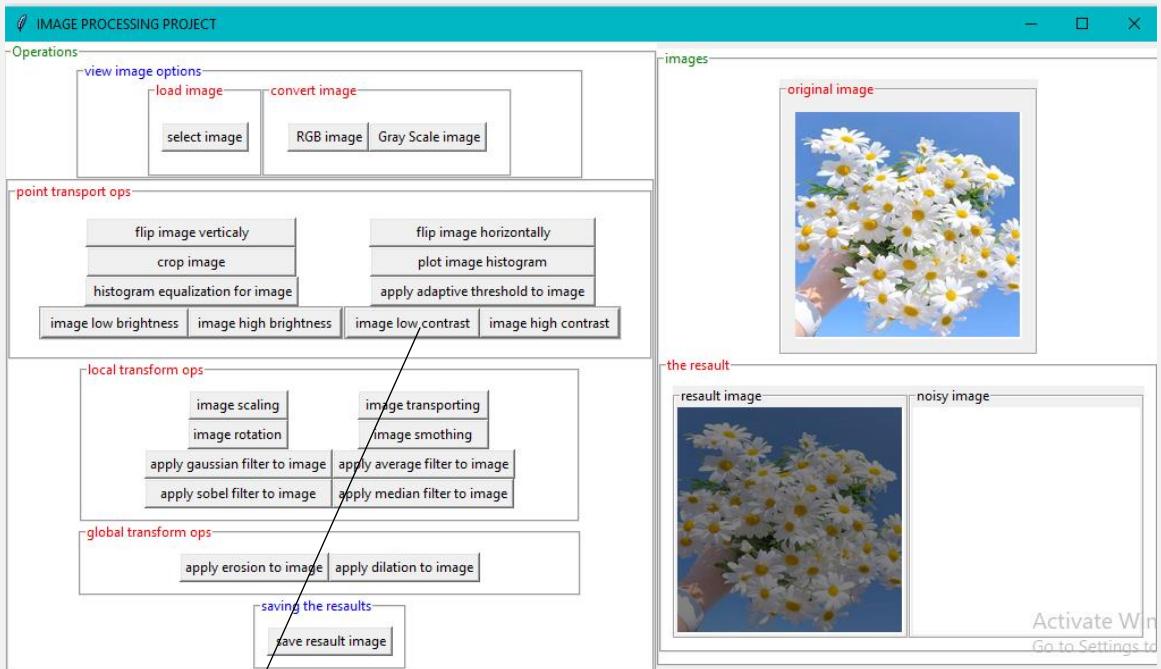
APPLY ADAPTIVE THRESHOLD TO THE IMAGE



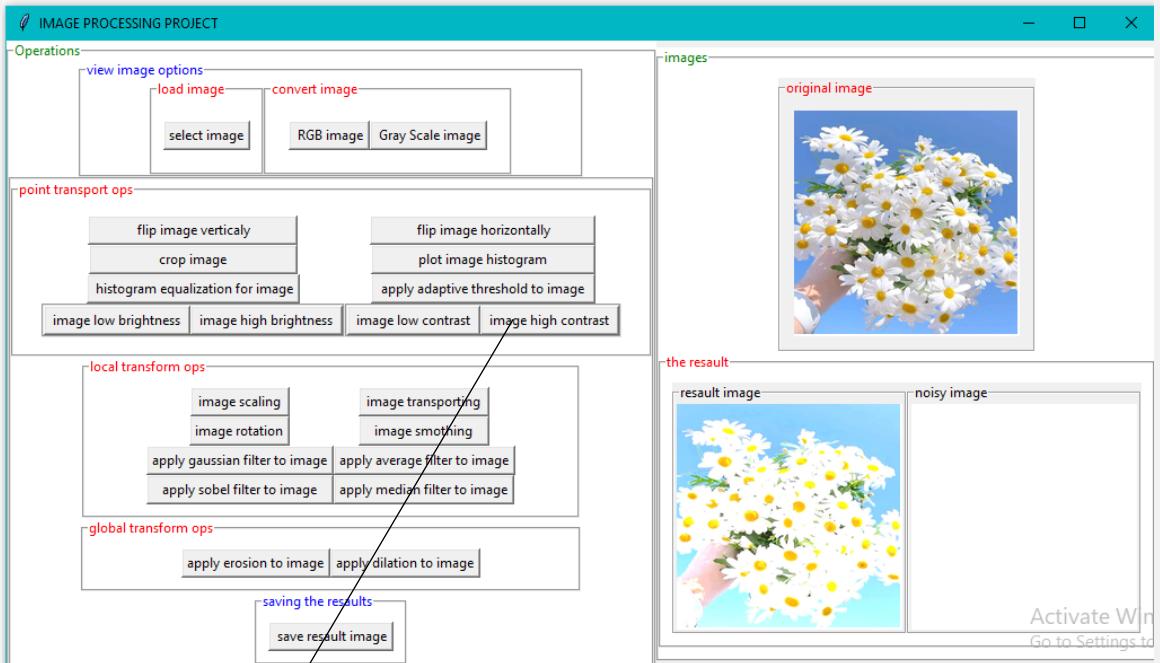
LOW BRIGHTNESS



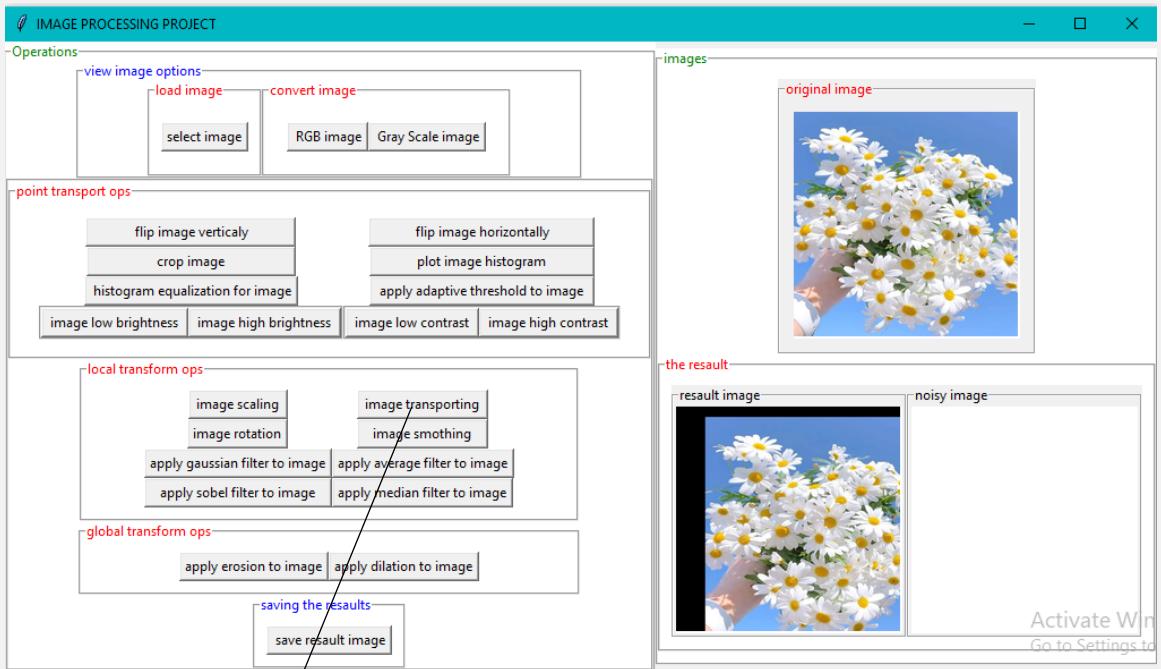
HIGH BRIGHTNESS



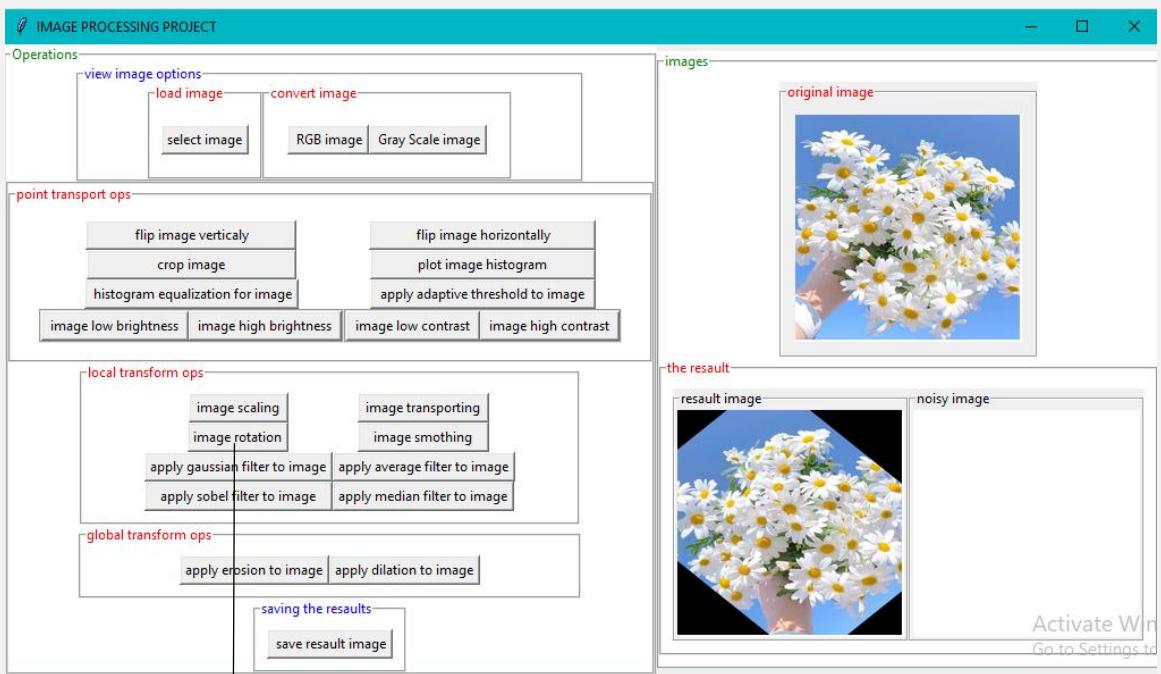
LOW CONTRAST



HIGH CONTRAST

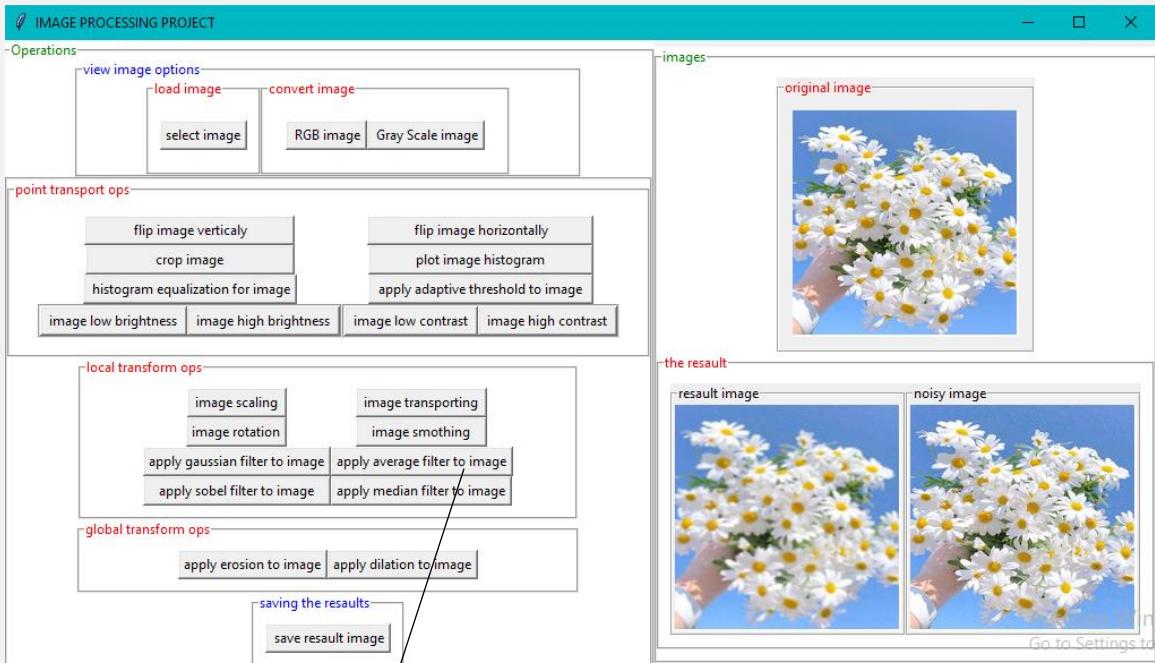


TRANSPORT THE IMAGE

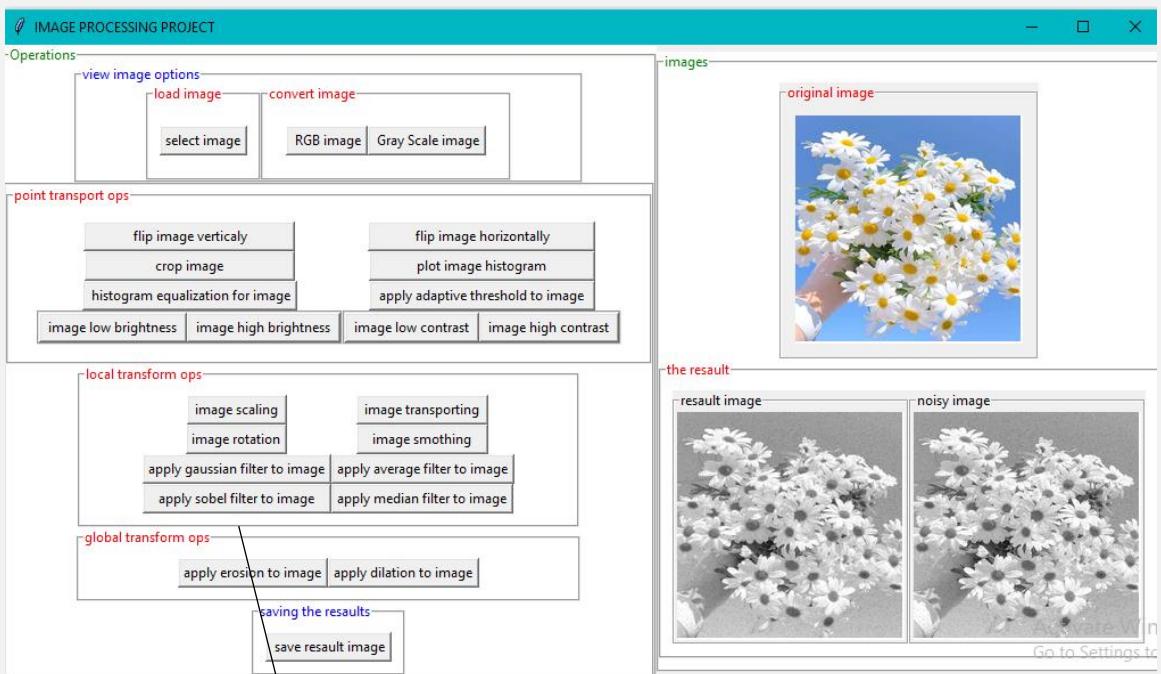


ROTATE THE IMAGE

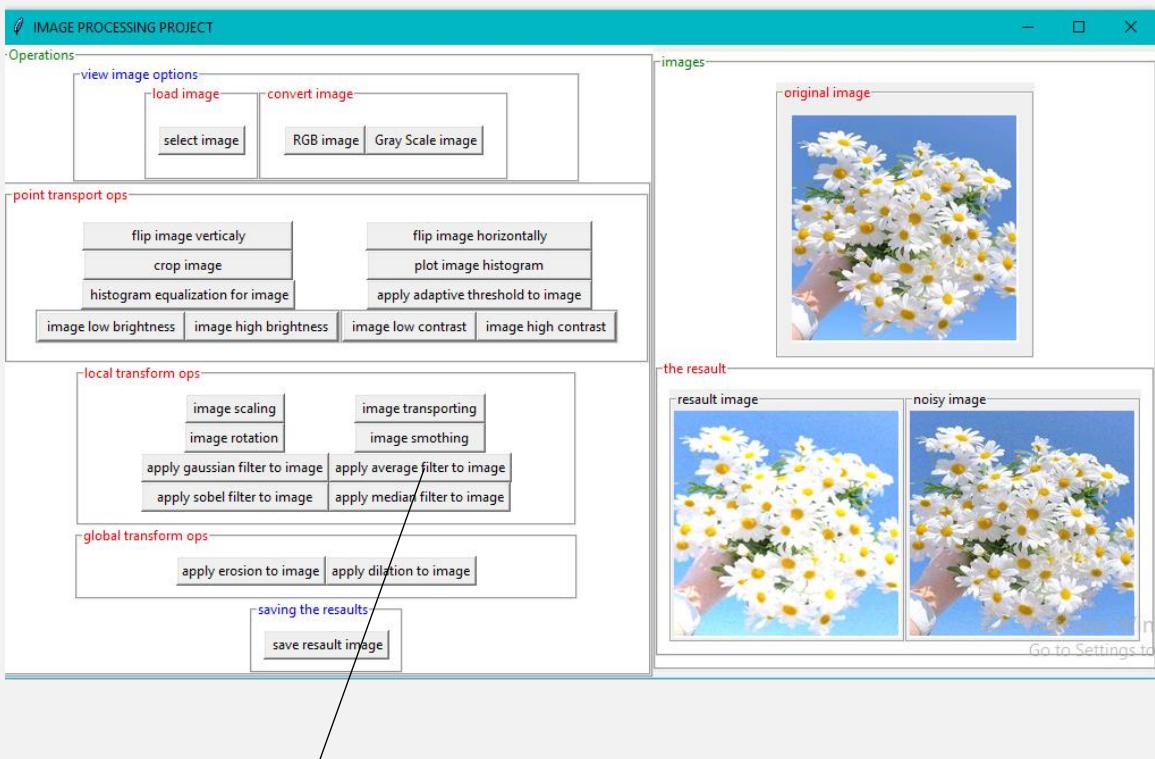
5- WHEN YOU USE FILTERS A GENERATED NOISE WILL BE APPLIED TO YOUR IMAGE BEFORE APPLYING THE FILTER



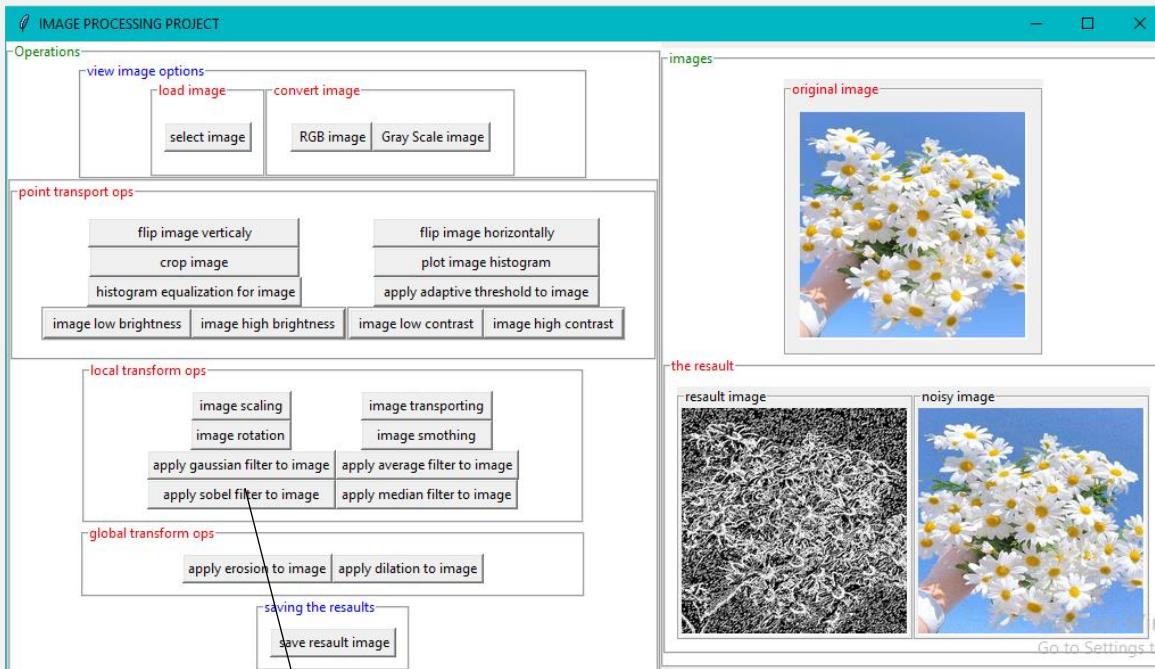
APPLY LOW PASS FILTER TO IMAGE WITH SALT AND PEPER NOISE



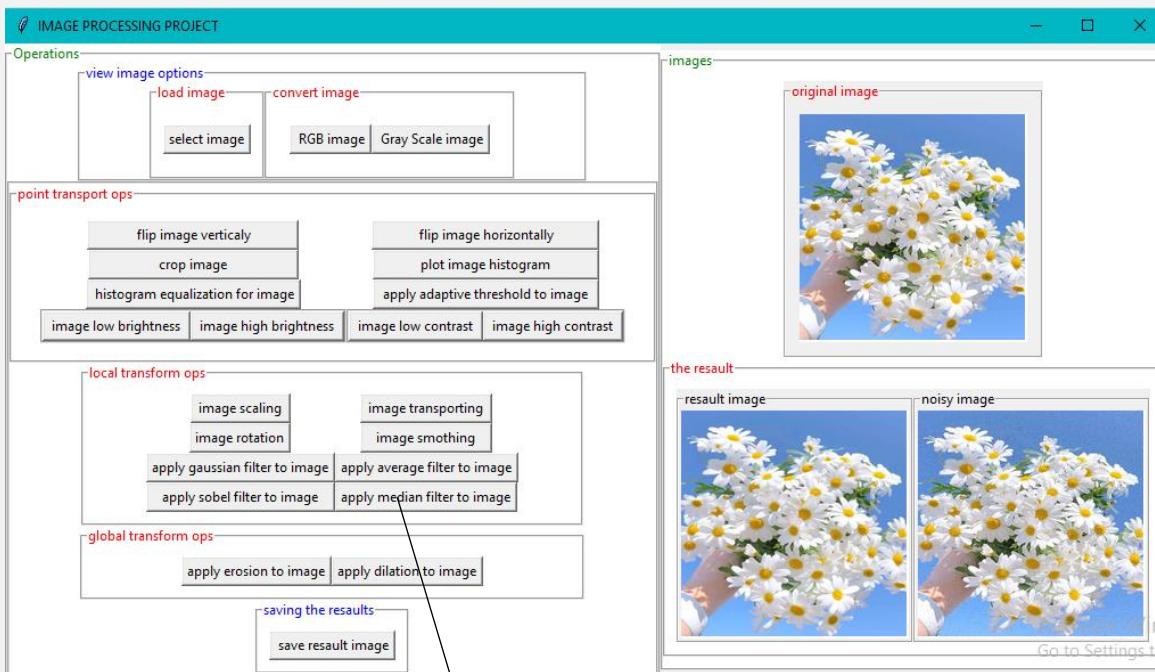
APPLY GAUSSION FILTER TO IMAGE WITH SALT AND PEPPER NOISE



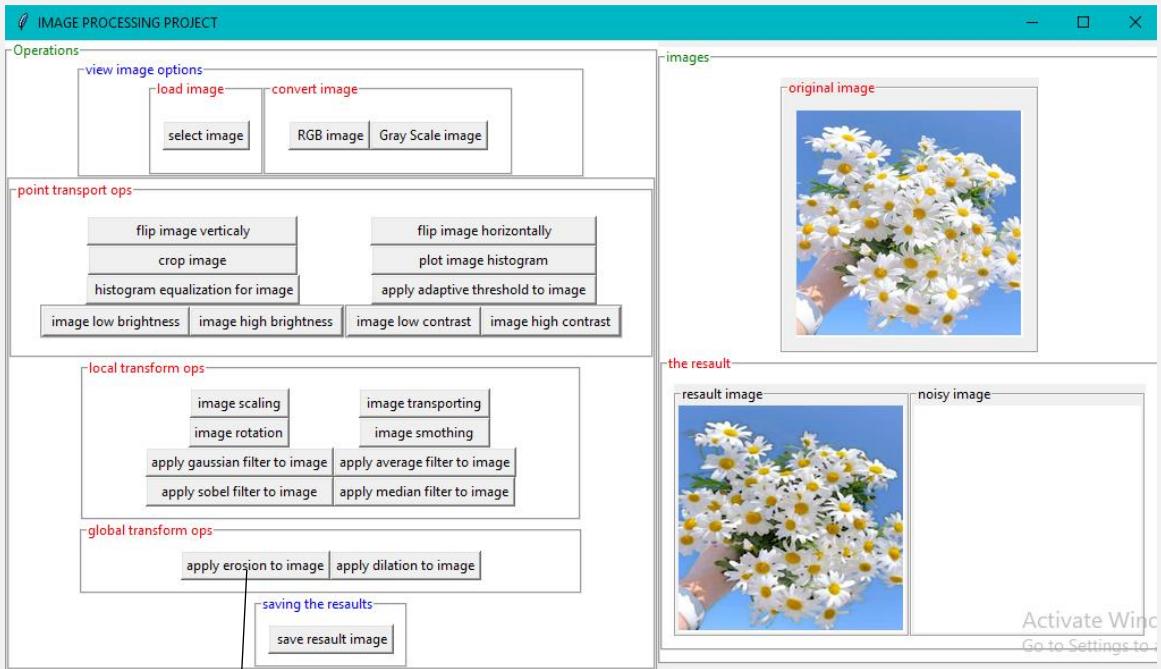
APPLY AVERAGE FILTER TO IMAGE WITH SALT AND PEPPER NOISE



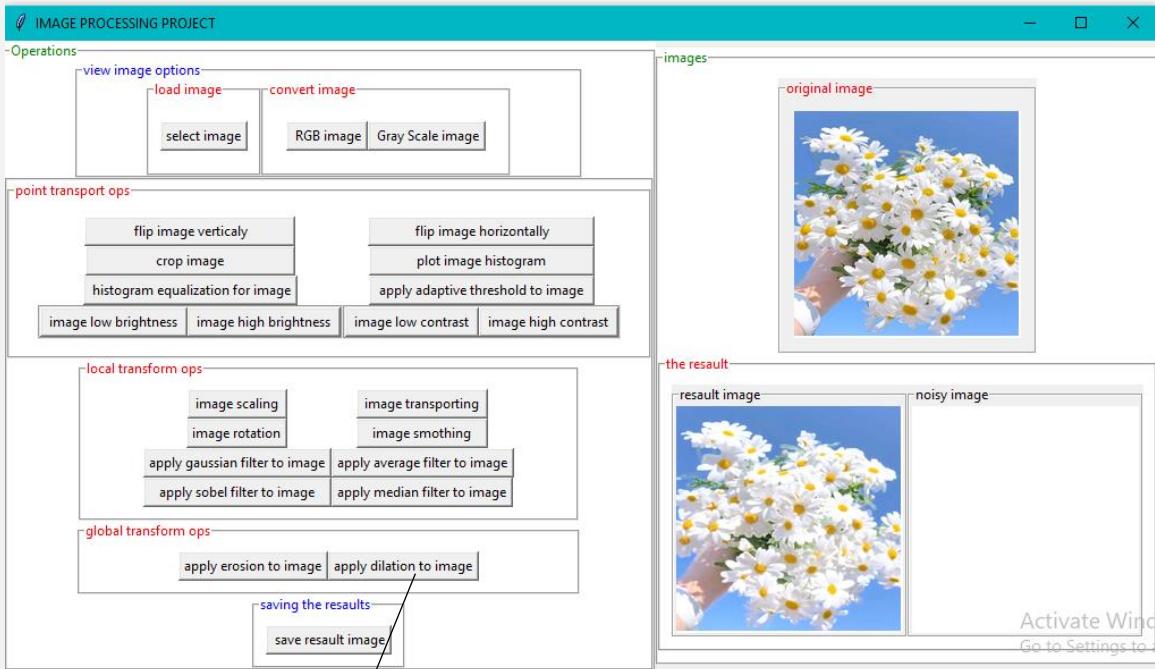
APPLY SOBEL FILTER TO IMAGE WITH SALT AND PEPPER NOISE



APPLY MEDIAN FILTER TO IMAGE WITH SALT AND PEPPER NOISE

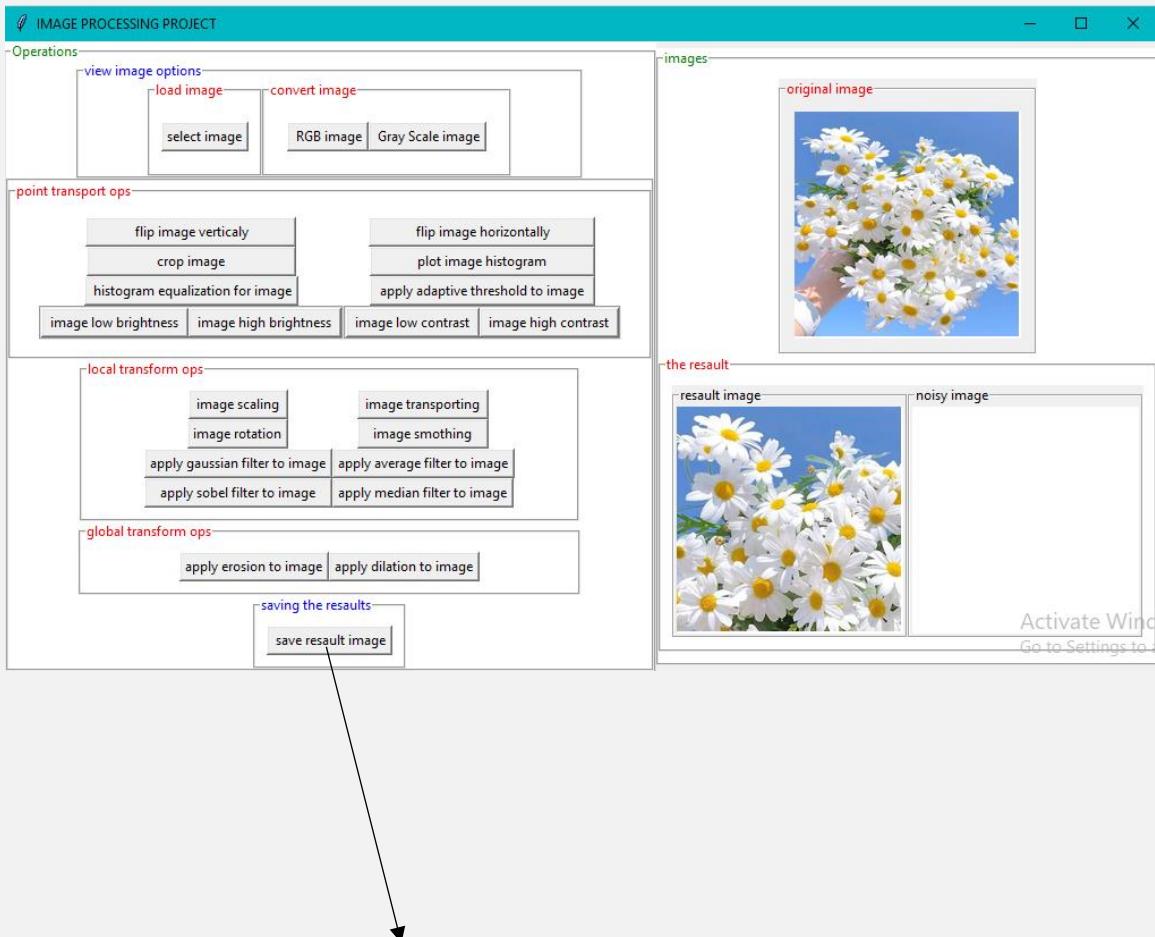


APPLY EROSION TO IMAGE



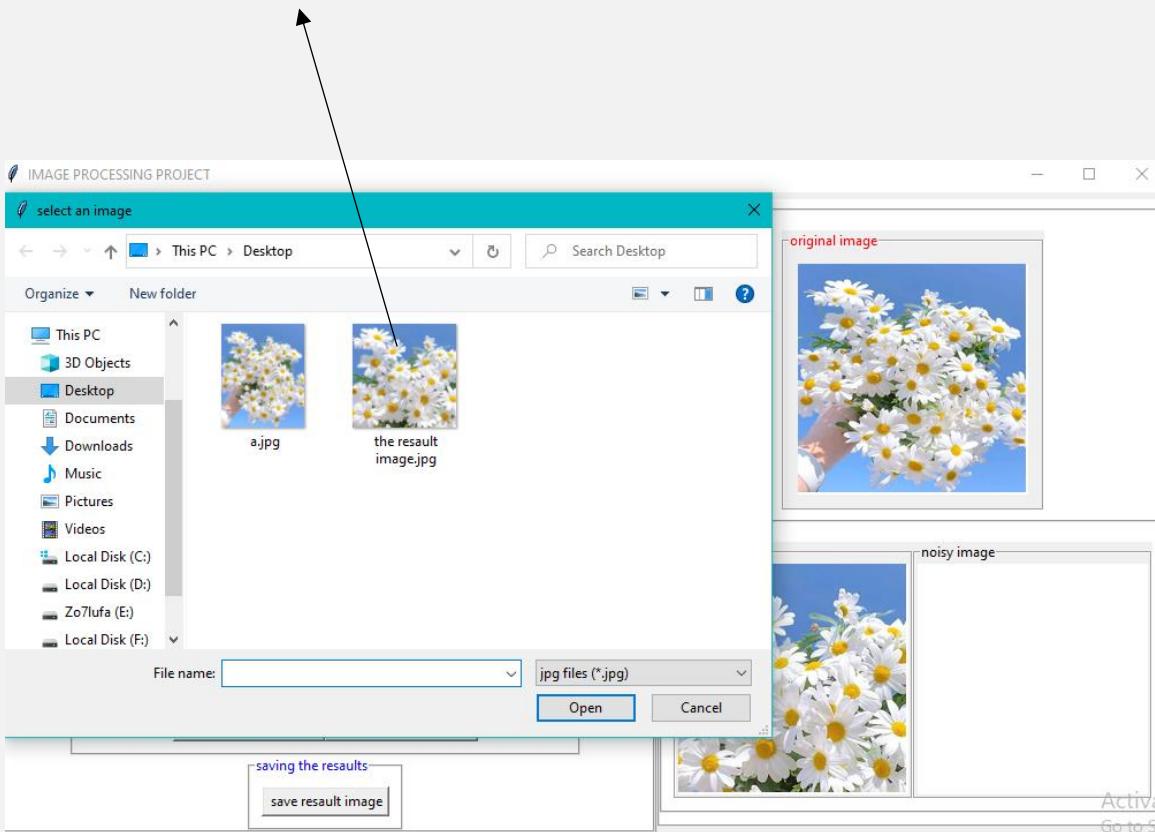
APPLY DILATION TO IMAGE

6-Also, you can save the image after apply operation to the image.



CLICK SAVE RESULT IMAGE TO SAVE CURRENT RESULT IMAGE

YOU CAN FIND THE SAFED IMAGE ON YOUR FILE



**THANK
YOU**