How to use your GUI to use each operation supported by our program:

* Load: Click on `Open an Image` button to load an image of types ppm, bmp, png or jpg into the application. The loaded image will be displayed in `Showing an image section` and histogram of the image is displayed in `Histogram` section.

* Save: Click on `Save the image` button to save the currently displayed image.

When the dialog box pops up, user needs to select the location where the image has to be saved. User can save the image in the following file format: ppm, bmp, png and jpg.

If any other formats are entered the image will not be saved and the error popup message is displayed.

* Brighten: Below the buttons Open and Save, there is a dropdown from which an image operation can be selected. When Brighten is selected, a slider appears from which the brightness value can be set. The brightened image will be displayed in `Showing an image section` and histogram of the image is displayed in `Histogram` section.

* Darken: When Darken is selected, a slider appears from which the darkness value can be set. The darkened image will be displayed in `Showing an image section` and histogram of the image is displayed in `Histogram` section.

* When the RGB Split is chosen from the dropdown, the dialog boxes will open thrice for red, green and blue components of the images to be saved in a location.

* When the RGB Combine is selected from dropdown, user gets to choose 3 images from the 3 dialog boxes. Once the images are chosen, the combined image will be displayed on the screen in `Showing an image section` and histogram of the image is displayed in `Histogram` section.

* For all the other operations -

* blur

* sharpen

* horizontal flip

* vertical flip

* dither

* sepia

* greyscale-blue

* greyscale-red

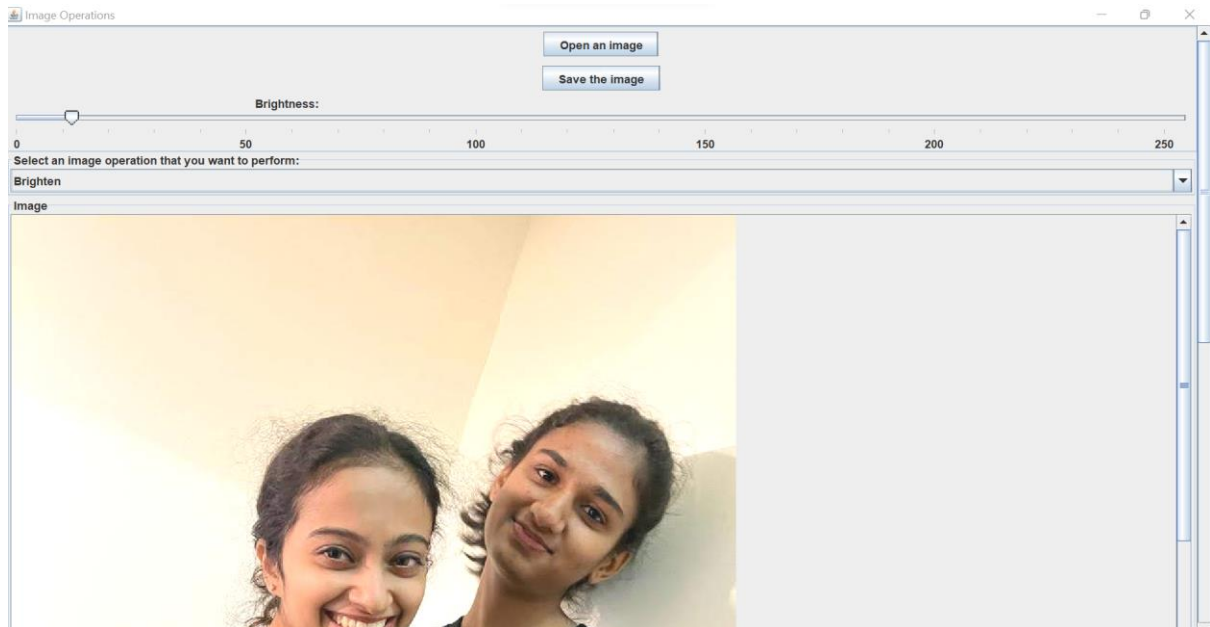* greyscale-green

* greyscale-luma

* greyscale-intensity
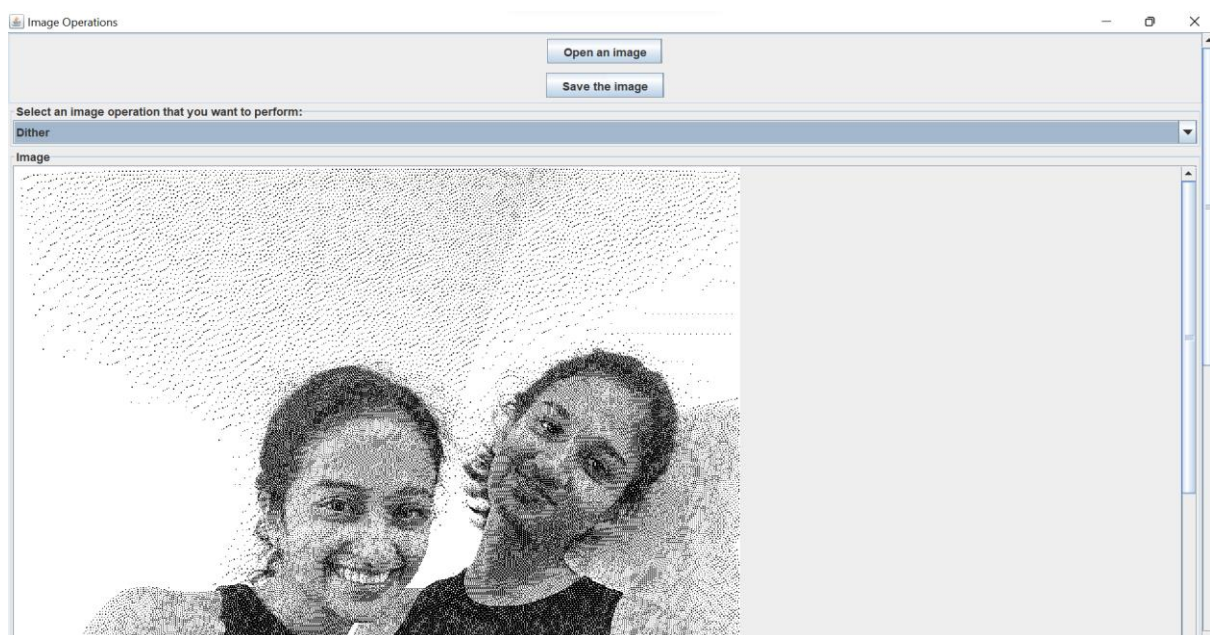
* greyscale-value

* greyscale transform

* select the options from the dropdown, the corresponding operation will be performed on the image and the operated image will display in the `Showing an image section` and histogram of the image is displayed in `Histogram` section.

* Example images:

* Brighten

* Dither

* RGB Split

Image Operations   — ☐ ✕

Open an image

Save the image

Select an image operation that you want to perform:

RGB Split   ▼

Horizontal Flip
Vertical Flip
Sepia
RGB Split
RGB Combine
Greyscale-Value
Greyscale-Intensity
Greyscale-Luma

Message   ✕

Split Operation performed successfully. Save the images in the following popup.

OK