

Reason for Interest in Pillow package:

I chose the **Pillow** library because it is simple to use and is a great starting point for exploring **Image Processing** in Python. I'm particularly interested in experimenting with tasks like:

- Creating thumbnails for profile pictures
- Image rotation and resizing for mobile optimization
- Applying filters and effects
- Converting formats (like JPG to PNG)
- These operations can be useful for personal projects such as automating Instagram uploads, compressing images for WhatsApp sharing, or building basic photo editing tools.

I wrote a basic Python program to:

- Install Pillow package
- Import the Image module
- Load an image from the local system
- Resize and rotate the image
- Convert the image to grayscale
- Save the modified image

When I tried to run the code with an image file that wasn't in the working directory, I got the following error:

```
FileNotFoundError: [Errno 2] No such file or directory: 'sample.jpg'
```

The Pillow library tried to open an image named sample.jpg using:

```
Image.open('sample.jpg')
```

I fixed it by placing the image in the same folder as the script, or by giving the full path to the image like this:

```
Image.open('/Users/username/Desktop/sample.jpg')
```