DIP Calculator

About Project :

This is for fun purpose and totally a basic project to learn the concepts of Tkinter and Digital Image Processing .
This code contains small small functions that represents how to add some noise to an image and how to blurr it and many other thing like how to find Fourier Spectrum of an image .

Objective:

To Create a GUI which can show a user the effect of noise,filters ,blurring effects and also the spectrum of images.

Platform used: Visual Studio Code

Language Used: Python

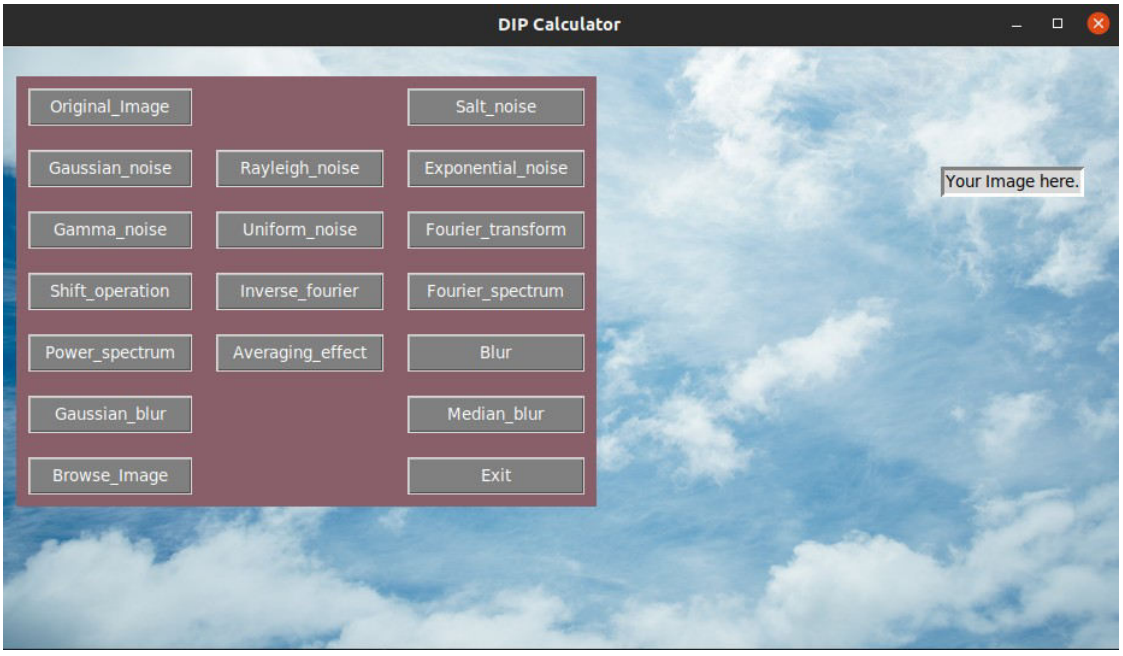
GUI : Tkinter

Other Modules Required : python3-pillow,numpy,cv2,matplotlib.

How to use it:

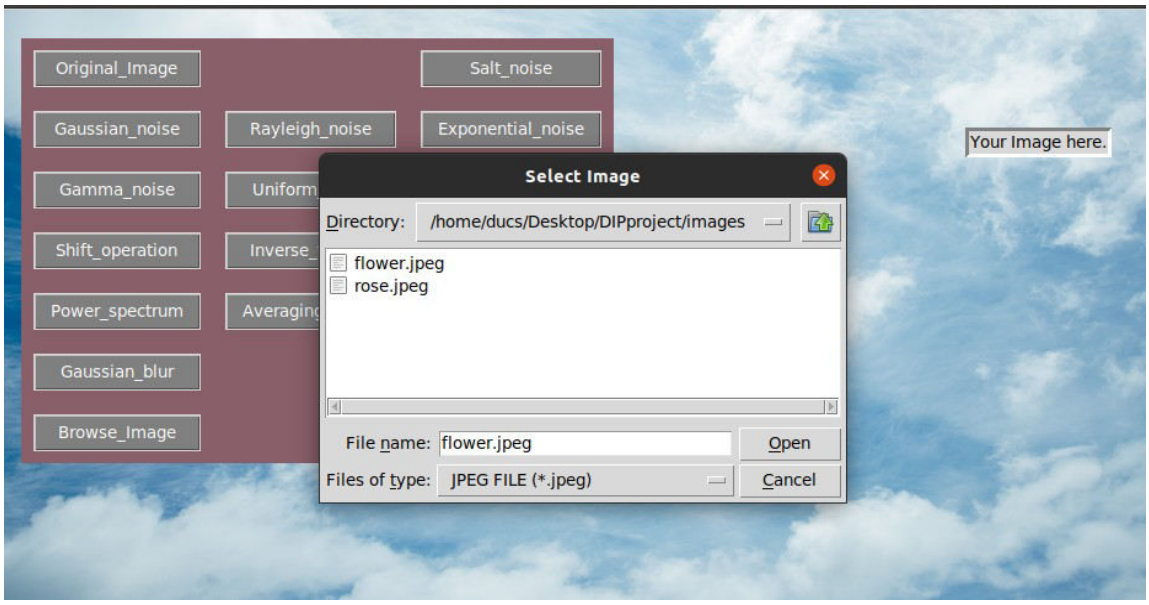
Step1: Choose the image by using “Browse_Image” button .
Step 2: Apply the that you want to apply on that image.
Step 3: Exit using “Exit” Button

Default window :

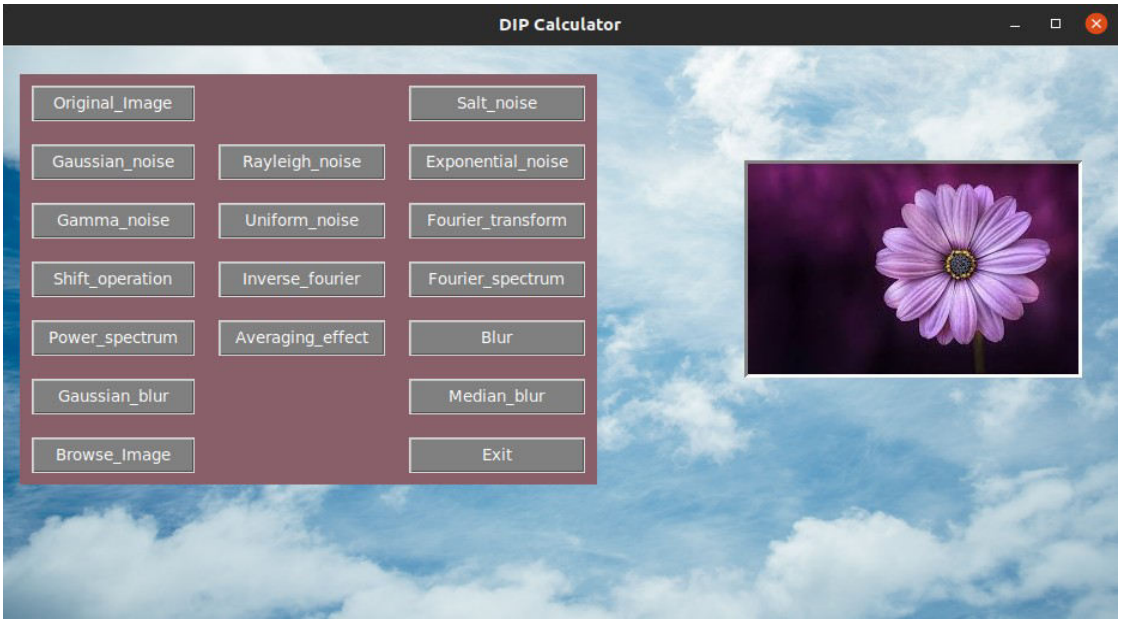


We can press buttons according to our need but first of all have to browse an image from computer .

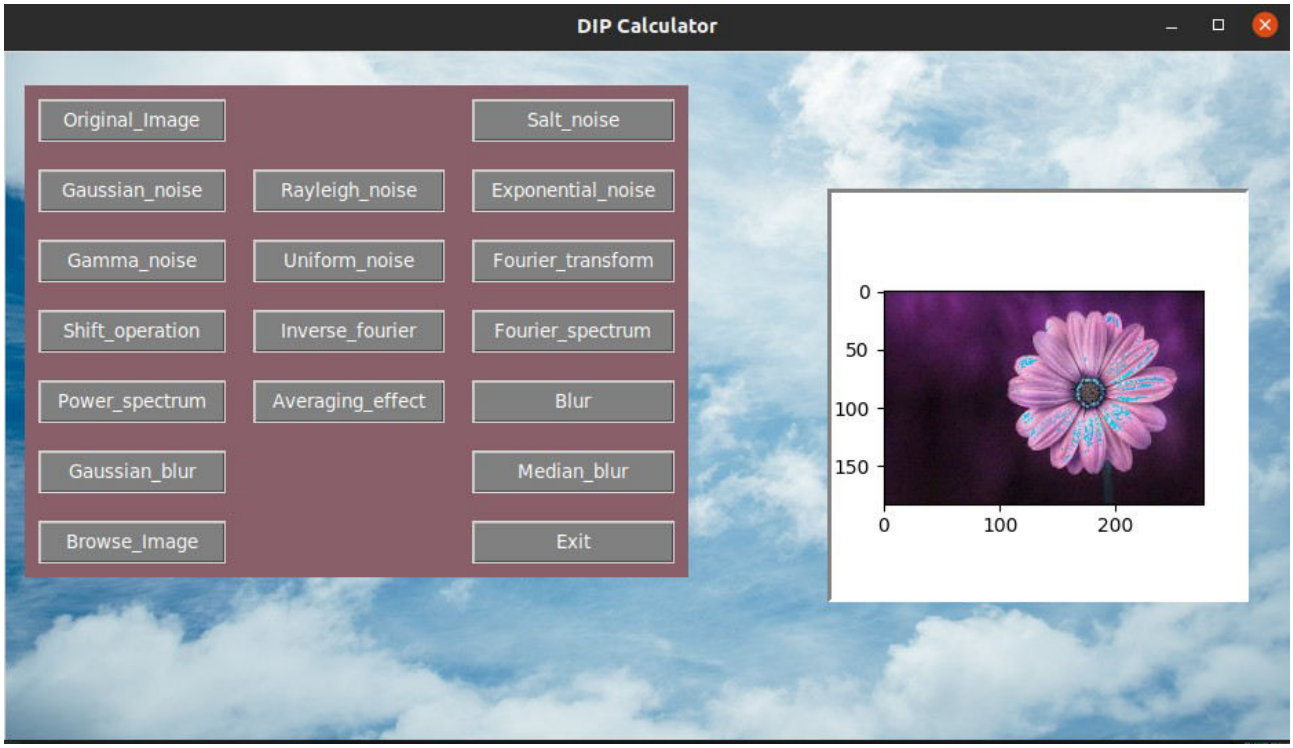
After Clicking on Browse_Image Button:



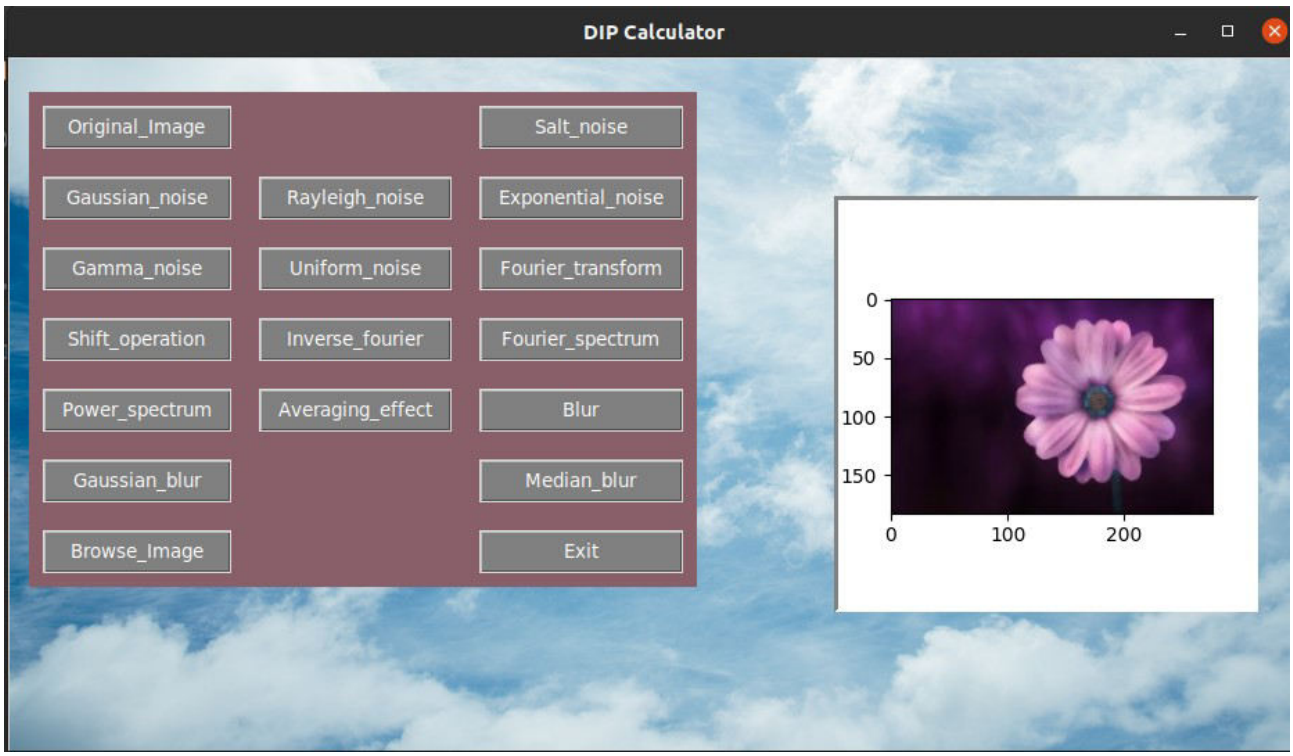
After Selecting an Image :



After Adding Uniform_Noise :



After applying some Blurr option:



Spectrum of Chosen image :