**Required installations:**

1) conda create --name <name\_of\_env> python=3.5

conda create --name tf

conda activate <name>

conda install -c anaconda pyqt

2) Download Qt Creator

3) pip install scikit-image

pip install opencv-python

**Required Libraries:**

math, sys, imutils, numpy, matplotlib

**Input images:**

The images required for upload are present in the **“input images”** folder.

**Lenna\_512.png**: Used for Image negative, Log Transformation, Gamma Transformation, Histogram Equalization, DFT, Image Reconstruction using IFFT, Histogram Shaping.

**lenna\_noise.jpg:** Used for median filter.

**monalisa\_noise.png:** Used for mean filter.

**Cameraman\_512.jpg:** Used for Low pass, High pass, Band pass, Unsharp masking filters.

**cameraman\_256.jpg:** Used for Laplacian Filter.

**lenna\_Interpolation.jpg** (256X256): Used for Bilinear and Bicubic Interpolation.

**Execution Commands:**

Clone the project repository and execute the following command:

python transformation.py