

## IVP LAB ASSIGNMENT IV

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1. Process the given image using an ideal lowpass and highpass filter in the frequency domain (choose appropriate  $D_o$ ) [Download](#)
2. Design a lowpass frequency filter (use both butterworth and Gaussian) in the frequency domain to smoothen the image (choose appropriate radius). [Download](#)
3. Design a highpass frequency (use both butterworth and Gaussian) filter to highlight the edges in the image [Download](#)

**\*\*You are only allowed to use matplotlib and numpy\*\***