Write down the following program using MATLAB or Python:

1. Write a program to display grayscale image using read and write operation.
2. Write a program to find histogram value and display histograph of a grayscale and color image.
3. Write a vision program for NonLinear Filtering technique using edge detection
4. Write a program to determine the edge detection of an image using different operators.
5. Write a program to discretize an image using Fourier transformation.
6. Write a program to eliminate the high frequency components of an image.
7. Write a program for color image processing and perform read and write operation.
8. Write a program to obtain the R, B, G colour values and resolved colour values from a colour box by choosing any colour.
9. Write a program to performs discrete wavelet transform on image.
10. Write a program for segmentation of an image using watershed transforms.
11. Write a program for simulation and display of an Image, Negative of an Image (Binary & Gray Scale)
12. Write a program for Implementation of Relationships between Pixels
13. Write a program for Implementation of Transformations of an Image
14. Write a program for Contrast stretching of a low contrast image, Histogram, and Histogram Equalization.
15. Write a program to display of bit planes of an Image.
16. Write a program to display of FFT(1-D & 2-D) of an image
17. Write a program to display Computation of Mean, Standard Deviation, Correlation coefficient of the given Image.
18. Write a program for Implementation of Image Smoothening Filters (Mean and Median filtering of an Image)
19. Write a program for Implementation of image sharpening filters and Edge Detection using Gradient Filters
20. Write a program for Image Compression by DCT, DPCM, HUFFMAN coding
21. Write a program for Implementation of image restoring techniques
22. Write a program for Implementation of Image Intensity slicing technique for image enhancement
23. Write a program for Canny edge detection Algorithm