RBE549: Computer Vision – Assignment 3
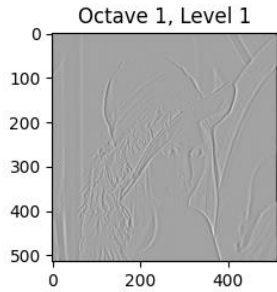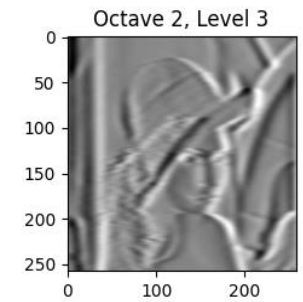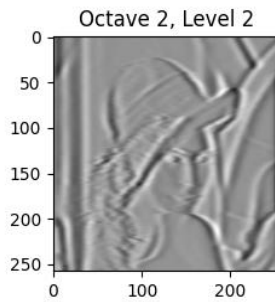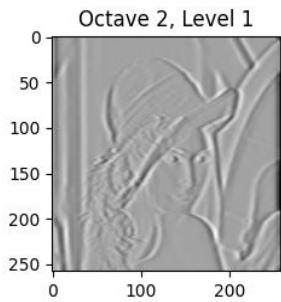
Dev Soni – djsoni@wpi.edu

DoG pyramid with 3 octave each having 3 levels:
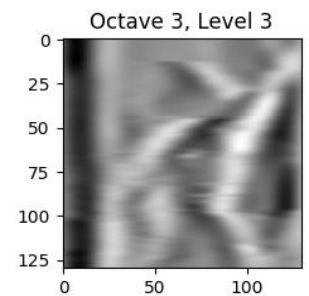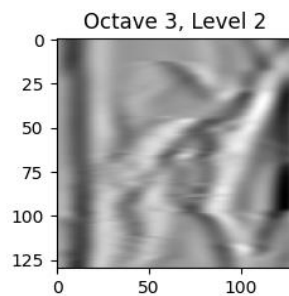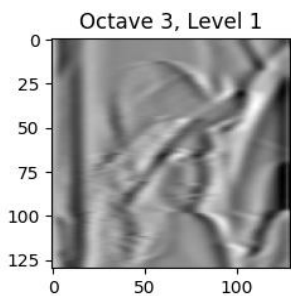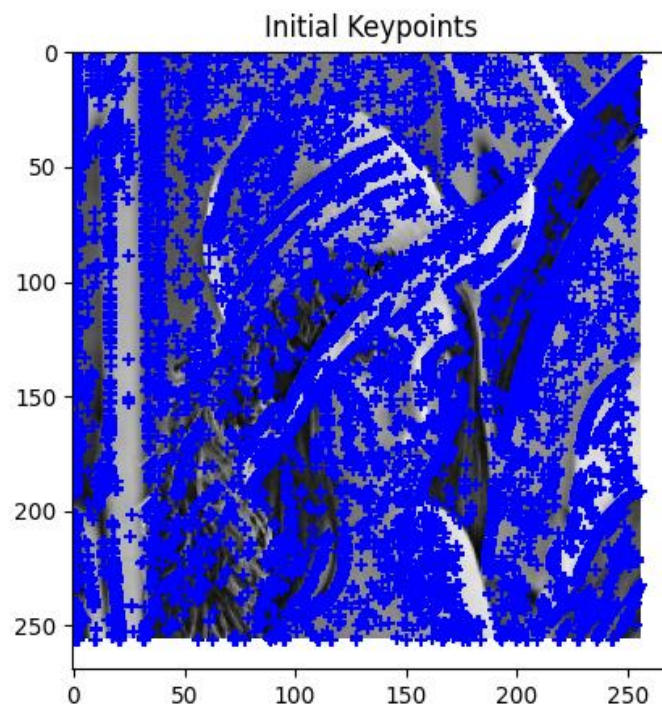
Difference of Gaussian (DoG) Stack - Octave 1
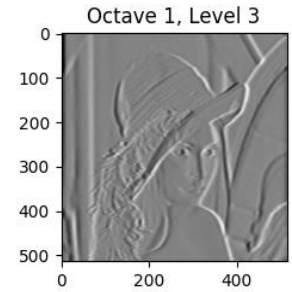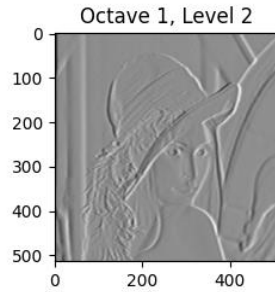
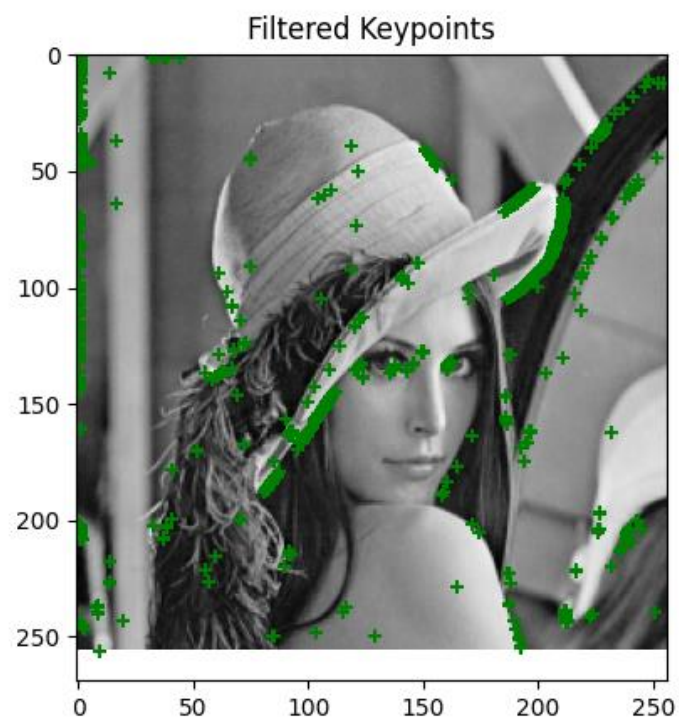### Difference of Gaussian (DoG) Stack - Octave 2

Difference of Gaussian (DoG) Stack - Octave 3

Extrema points in each of the octaves:

Initial Keypoints

Result of second order derivate and then thresholding:

Filtered Keypoints

Double derivative and final thresholding result:

Final Keypoints