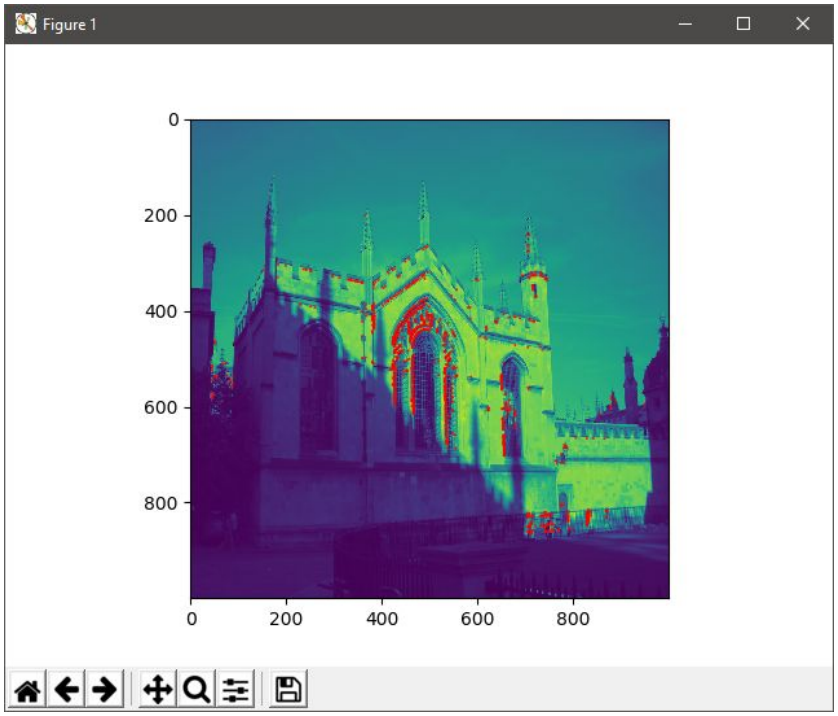
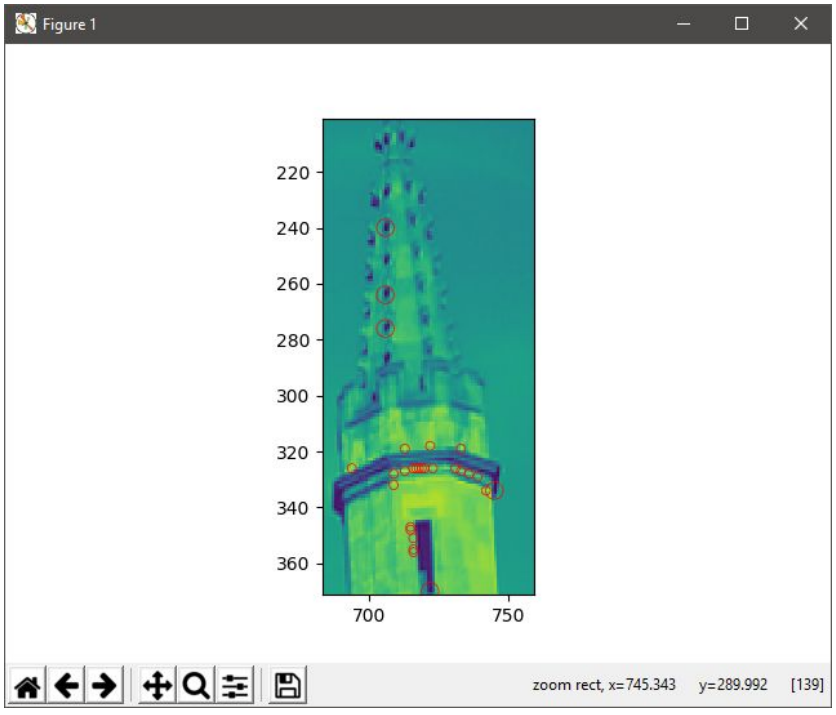
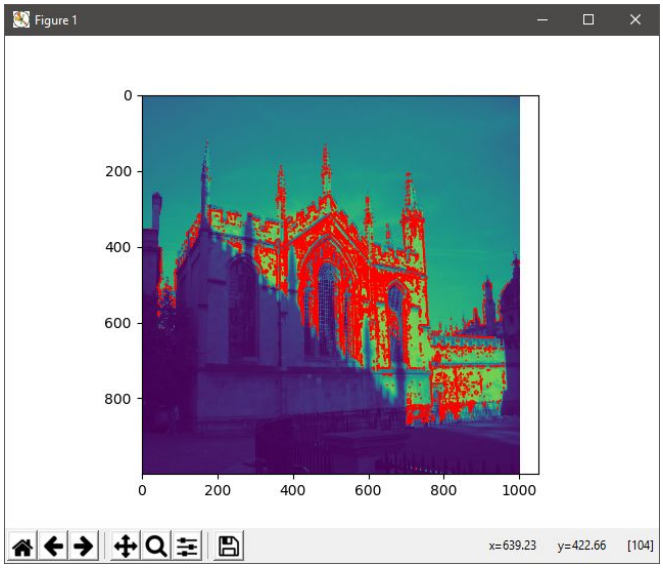
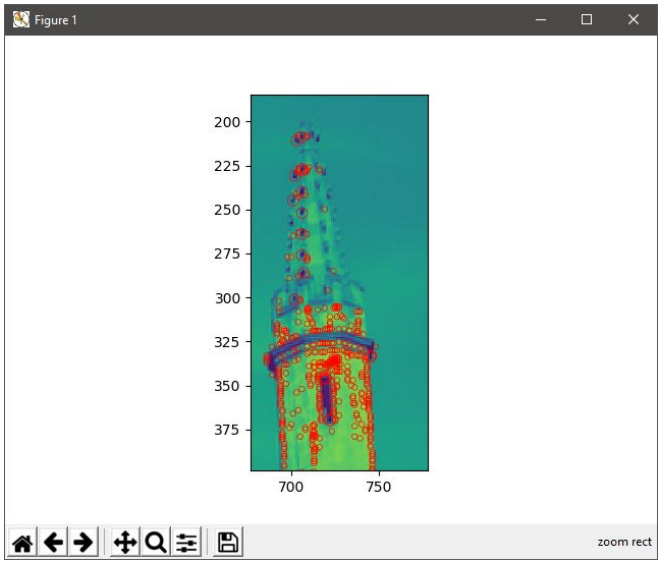




This showcases the keypoint detection of the LOG function with a sigma value of 1.12 and 3 LOG filters used with a threshold value of 0.5. The image below has a threshold value of 0.3.





The images used here had a size of 1000*1000 while all the remaining images for which the key points have been extracted have a size of 64*64.

While this reduces the accuracy of the keypoint extraction, I have done it in this manner to save time in terms of acquiring all the data and so that I can analyse all 5000 images and report the key points. The values used for the keypoint extraction of all 5000 images is Threshold - 0.5, Image Size - 64*64, Sigma - 1.12. The keypoints for this setup are present in the file LOG.json.

Sources: Sir's Notes, https://docs.opencv.org/2.4/modules/imgproc/doc/filtering.html, https://projectsflix.com/opencv/laplacian-blob-detector-using-python/, https://developer.rhino3d.com/guides/rhinopython/python-xml-json/