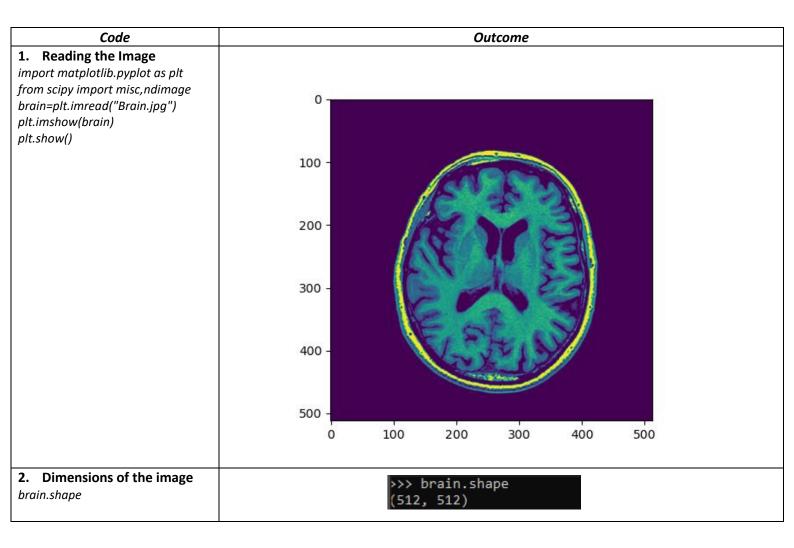
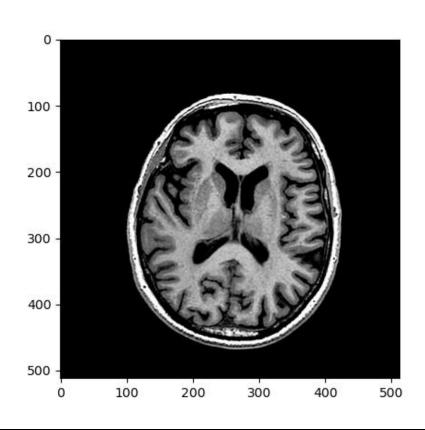
Assignment 2 – Image Processing Report

Name: Tanisha Roll. No.: 20510018

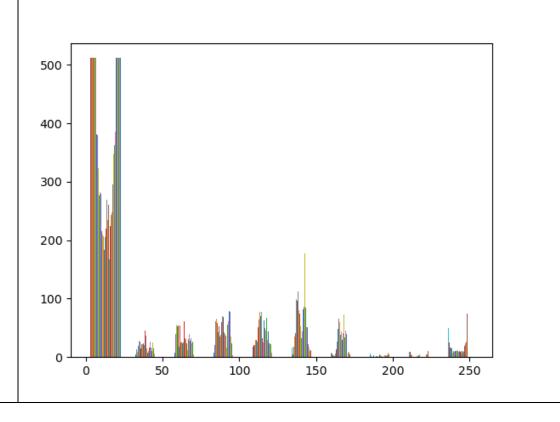
GitHub repository link: https://github.com/randomtanuser/IITGn-BIM/blob/main/Assignments/Assignment2



3. Grey scale image plt.imshow(brain,cmap='Greys_r') plt.show()

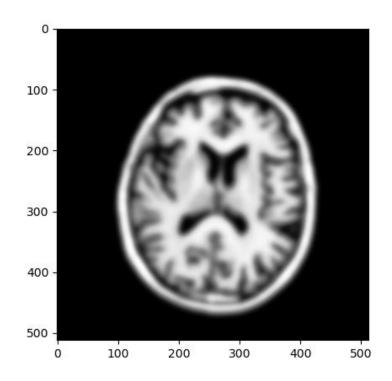


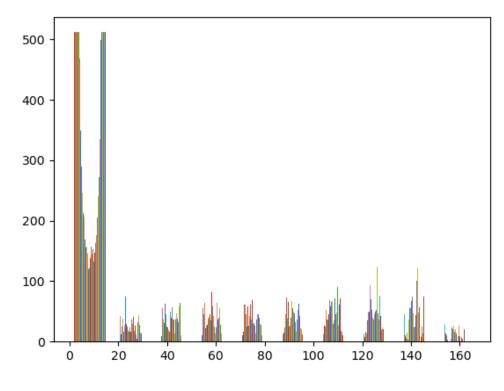
4. Histogram
plt.hist(brain, bins=10)
plt.show()



5. Sigma 5 gaussian filter and Histogram

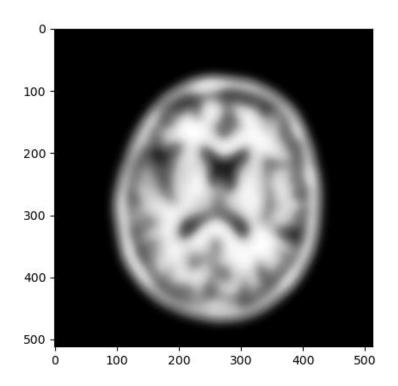
brain_sigma5=ndimage.gaussian_fi lter(brain, sigma=5) plt.imshow(brain_sigma5, cmap='Greys_r') plt.show() plt.hist(brain_sigma5, bins=10) plt.show()

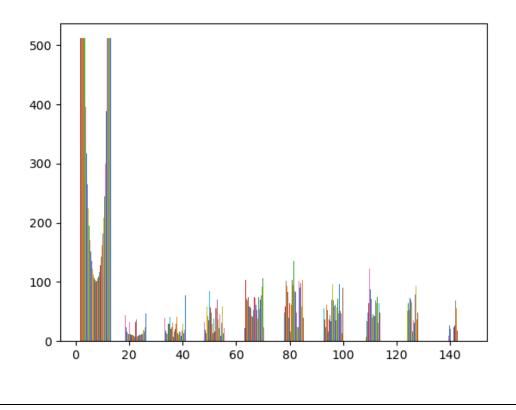




6. Sigma 10 gaussian filter and Histogram

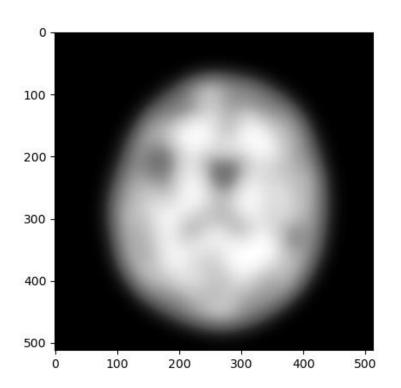
brain_sigma10=ndimage.gaussian_ filter(brain, sigma=10) plt.imshow(brain_sigma10, cmap='Greys_r') plt.show() plt.hist(brain_sigma10, bins=10) plt.show()

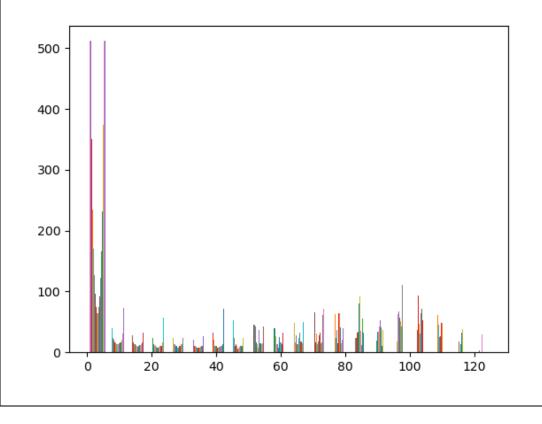




7. Sigma 20 gaussian filter and Histogram

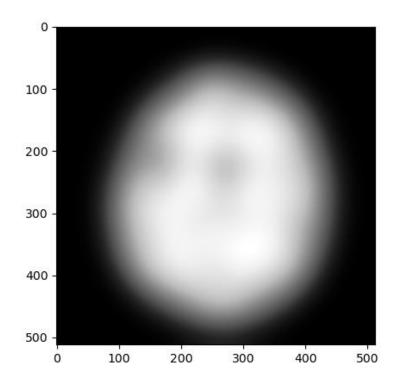
brain_sigma20=ndimage.gaussian_ filter(brain, sigma=20) plt.imshow(brain_sigma20, cmap='Greys_r') plt.show() plt.hist(brain_sigma20, bins=10) plt.show()

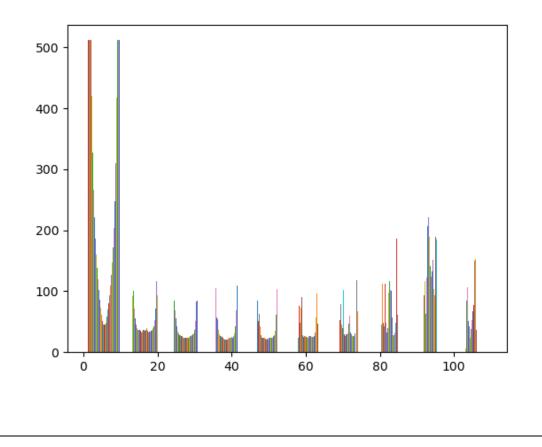




8. Sigma 30 gaussian filter and Histogram

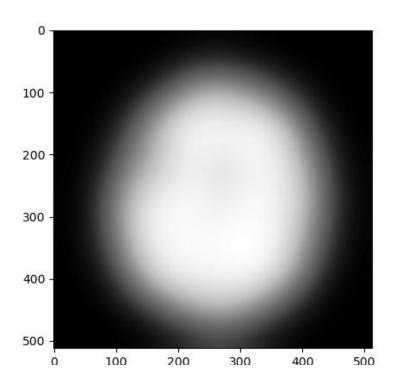
brain_sigma30=ndimage.gaussian_ filter(brain, sigma=30) plt.imshow(brain_sigma30, cmap='Greys_r') plt.show() plt.hist(brain_sigma30, bins=10) plt.show()

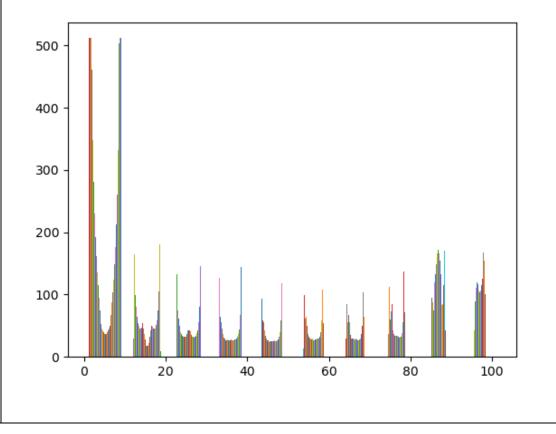




9. Sigma 40 gaussian filter and Histogram

brain_sigma40=ndimage.gaussian_ filter(brain, sigma=40) plt.imshow(brain_sigma40, cmap='Greys_r') plt.show() plt.hist(brain_sigma40, bins=10) plt.show()





10. Sigma 50 gaussian filter and Histogram

brain_sigma50=ndimage.gaussian_ filter(brain, sigma=50) plt.imshow(brain_sigma50, cmap='Greys_r') plt.show() plt.hist(brain_sigma50, bins=10) plt.show()

