

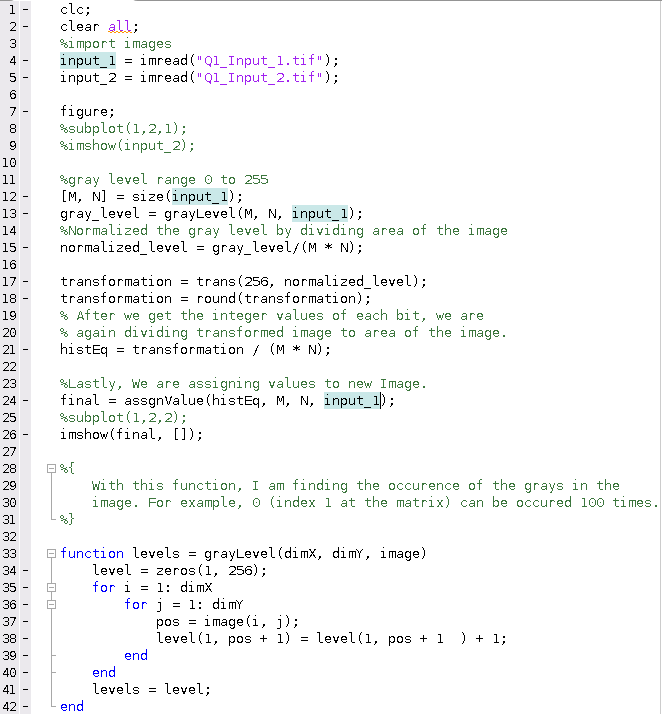
CNG 466 – FUNDAMENTAL IMAGE PROCESSING TECHNIQUES

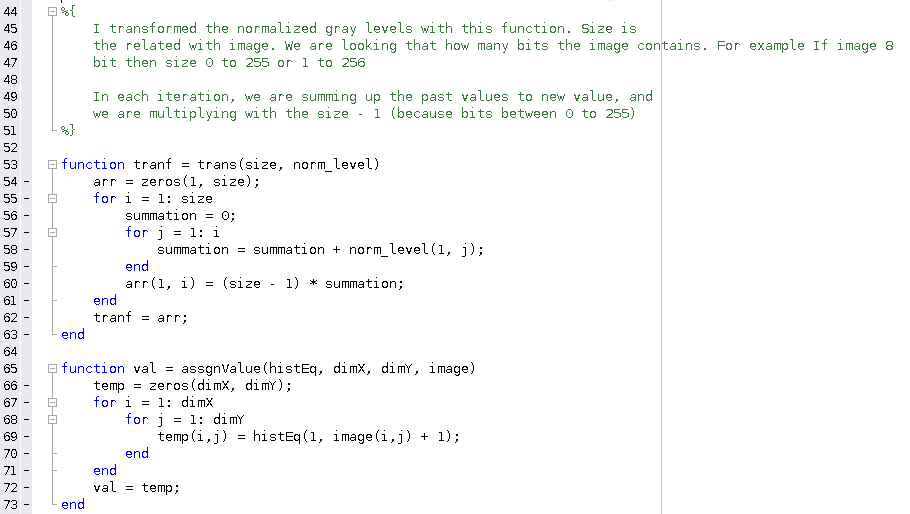
Fall 2019

Kaan Taha Köken - 2152064

1)

Code:





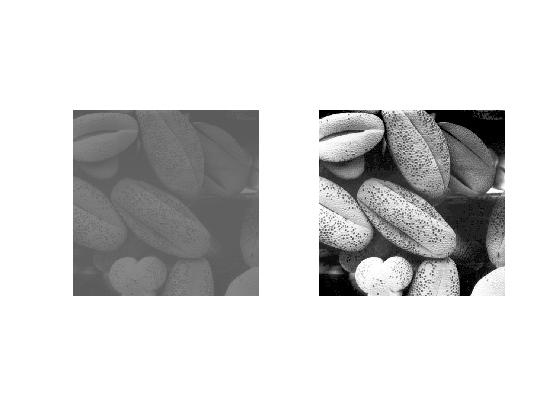


Image 1: Question 1-1 Comparison

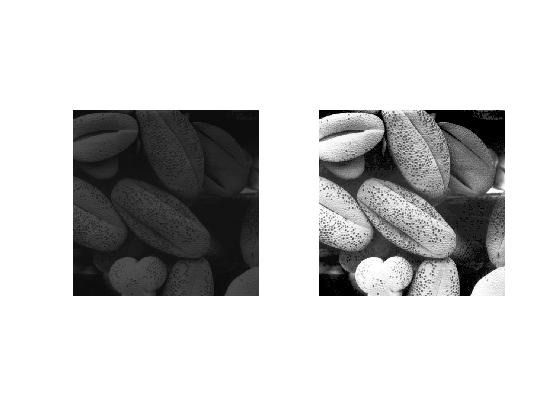


Image 2: Question 1-2 Comparison

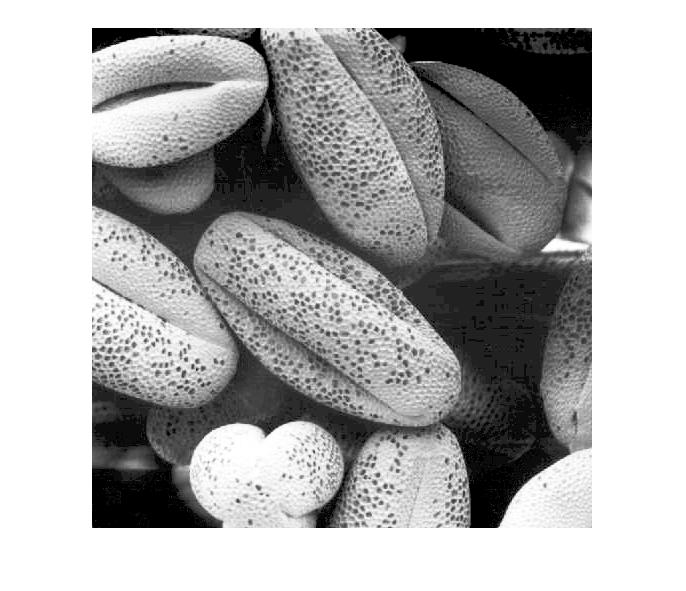
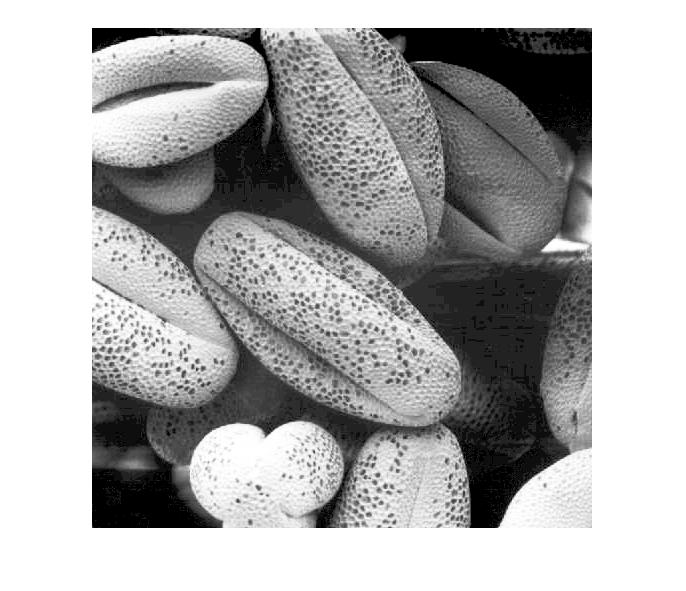
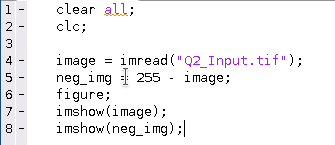


Image 3: Question 1 Output 1 Image 4: Question 1 Output 2

As a result, when we applied the algorithm on both picture, we got the same result. The algorithm is make the pictures more brighter.

2)

Code:



The algorithm basically takes the inverse of the pixel. Therefore, we are subtracting each pixels from 255.

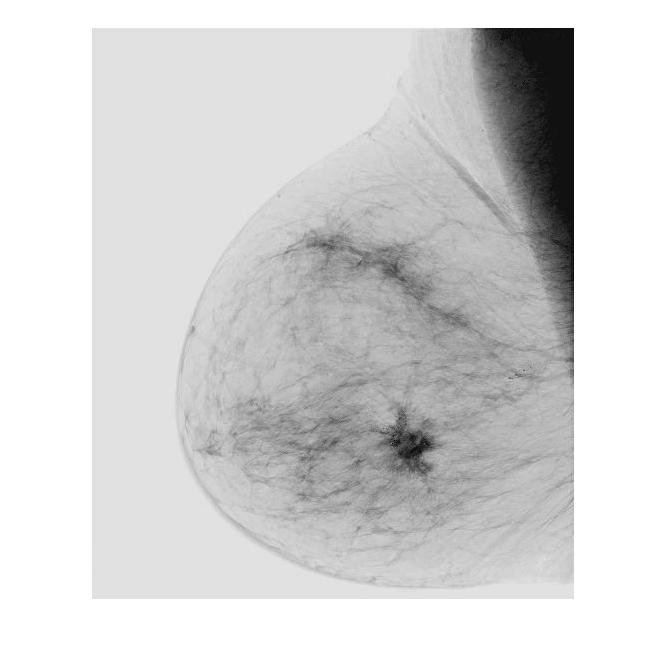
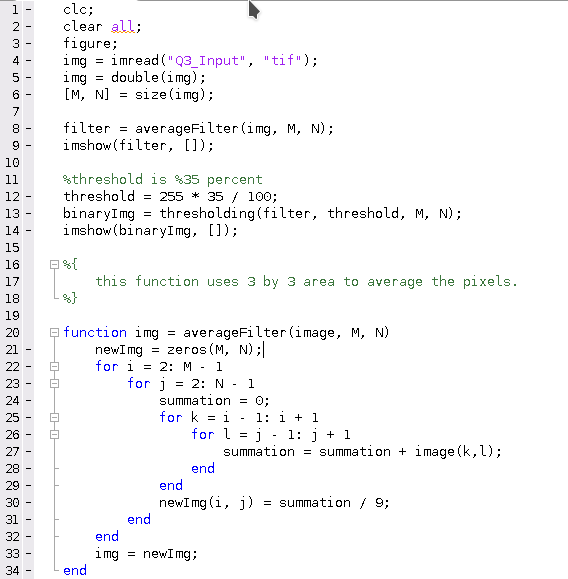
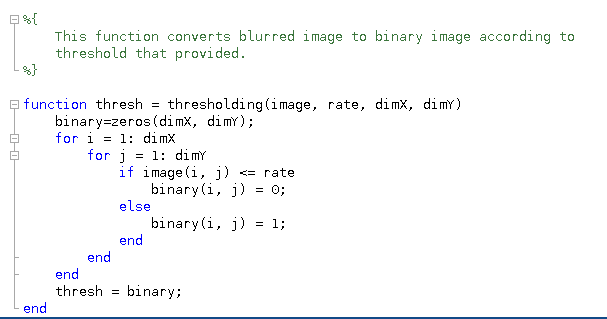


Image 5: Output 2

3)

Code:





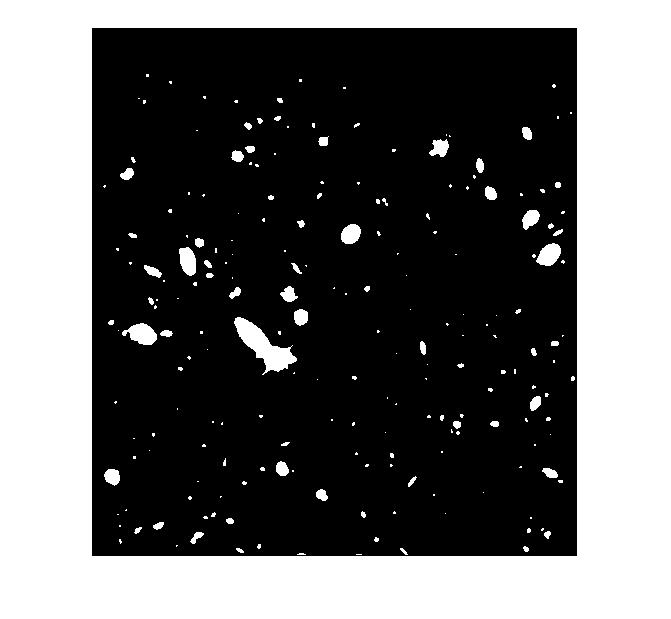
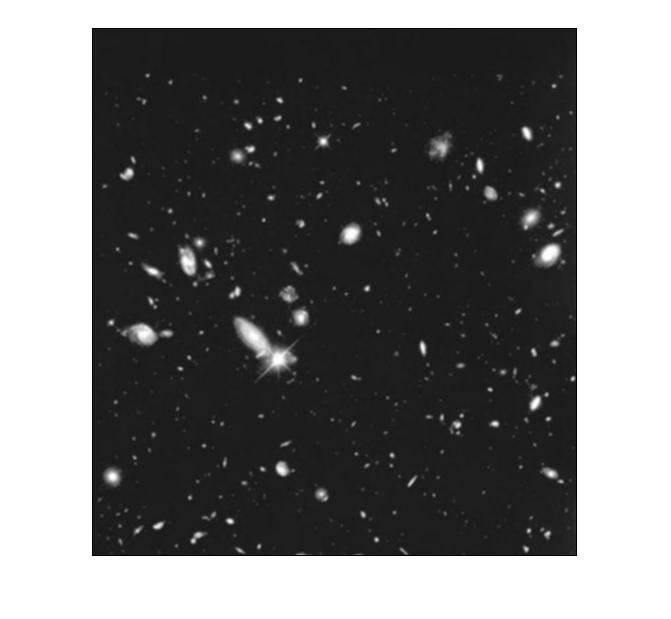
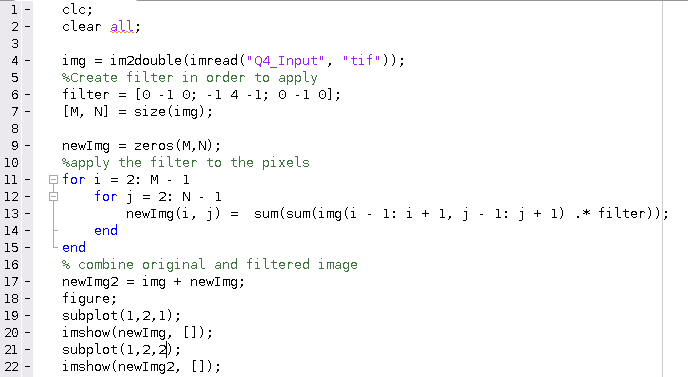


Image 6: Q3 - Blurred Image Image 7: Q3 - Binary Image

4)

Code:



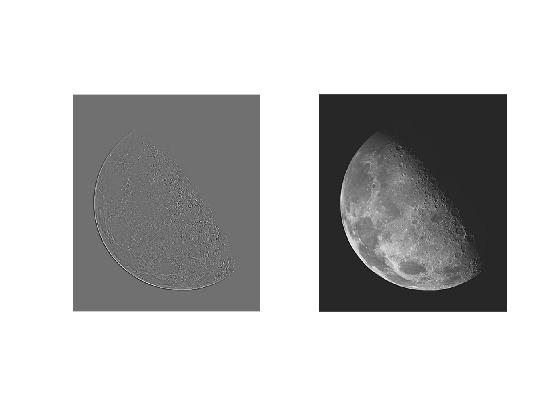
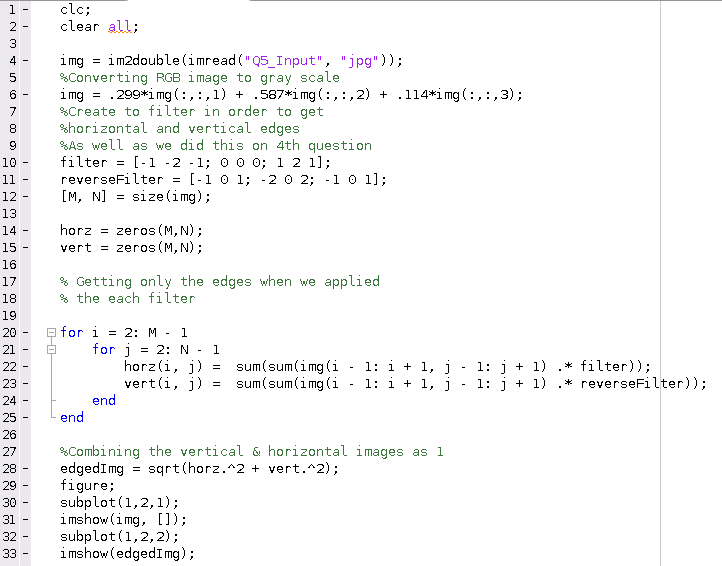


Image 8: Filtered Image and Filtered Img + Original Img

5)

Code:



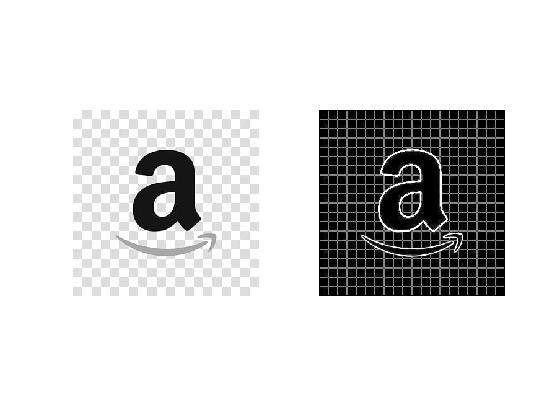


Image 9: Before & After