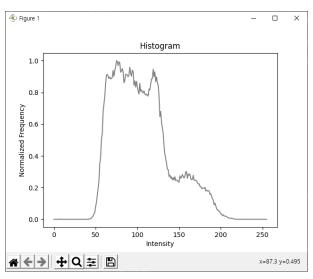
1-1. 1번 과제 코드

```
hsv equalized image. hist normalized hsv = hsv value equalization(input image
hsv_equalized_image, hist_normalized_hsv = hsv_value_equalization(input_image)
```

1-2. 1번 과제 결과

R,G,B 선택







histogram

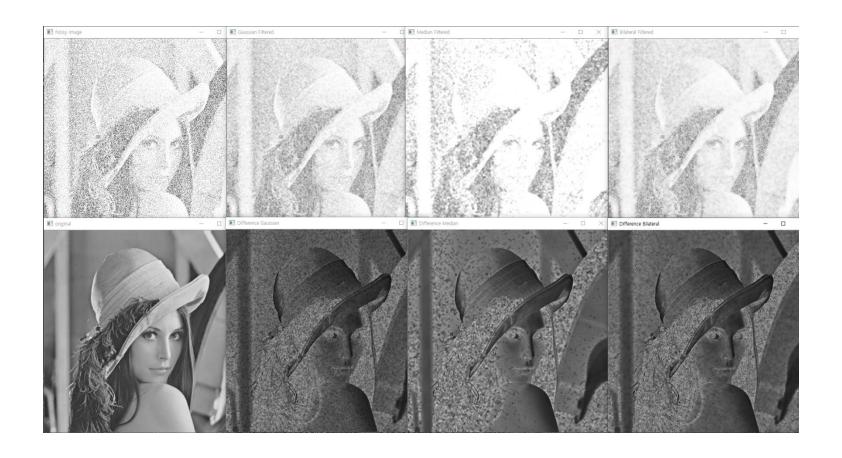
Histogram Equalized image

HSV Equalized image

2-1. 2번 과제 코드

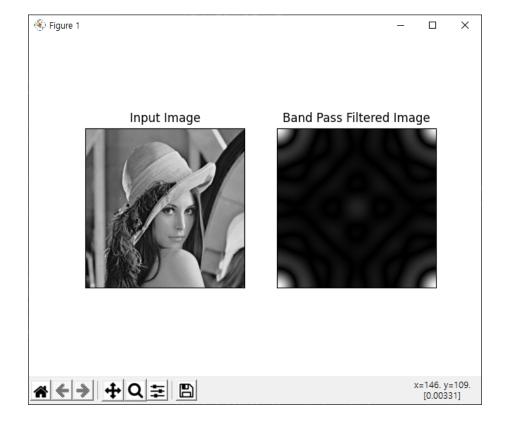
```
c♥2.imshow( winname: 'Gaussian Filtered', gaussian_filtered)
cv2.imshow( winname: 'Median Filtered', median_filtered)
```

2-2. 2번 과제 결과



3-1. 3번 과제 코드

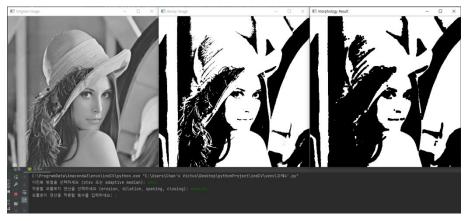
3-2. 3번 과제 결과



4-1. 4번 과제 코드

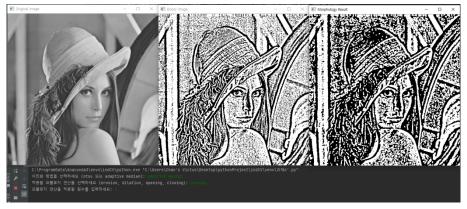
```
result = cv2.erode(binary_image, kernel, iterations=iterations)
   result = cv2.dilate(binary_image, kernel, iterations=iterations)
   result = cv2.morphologyEx(binary_image, cv2.MORPH_OPEN, kernel, iterations=iterations)
   result = cv2.morphologyEx(binary_image, cv2.MORPH_CLOSE, kernel, iterations=iterations)
cv2.imshow( winname: 'Binary Image' binary image)
cv2.imshow( winname: 'Morphology Result', result)
```

4-2. 4번 과제 결과



Otsu / erosion / 2회

Otsu / dilation / 3회



Adaptive median / opening / 1회



Adaptive median / closing / 2회