Report

For 1st question I wrote a med function which calculates the median filter. Given the second parameter it changes to 3x3, 5x5 or any other median filter. Additional comments are in the code.

For 2nd question I used the given filters with the pictures. Also I calculated the gradient magnitude of the image and printed them to screen. I added additional comments to the code.

1.



Şekil 1-Lena1 original photo



Şekil 2-3x3 Median Filtered Image



Şekil 3-5x5 Median Filtered Image



Şekil 4-7x7 Median Filtered Image



Şekil 5-Lena2 Original Image



Şekil 6-3x3 Median Filtered Image



Şekil 7-5x5 Median Filtered Image



Şekil 8-7x7 Median Filtered Image



Şekil 9- Lena3 Original Image



Şekil 10-3x3 Median Filtered Image



Şekil 11-5x5 Median Filtered Image



Şekil 12-7x7 Median Filtered Image



Şekil 13-Cameraman1 Original Image



Şekil 14-3x3 Median Filtered Image



Şekil 15-5x5 median filtered Image



Şekil 16-7x7 Median filtered Image



Şekil 17-Cameraman2 Original Image



Şekil 18-3x3 Median Filtered Image



Şekil 19-5x5 Median Filtered Image



Şekil 20-7x7 Median Filtered Image



Şekil 21-Cameraman3 Original Image



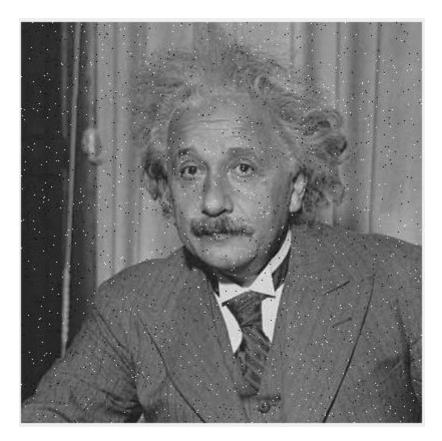
Şekil 22-3x3 Median Filtered Image



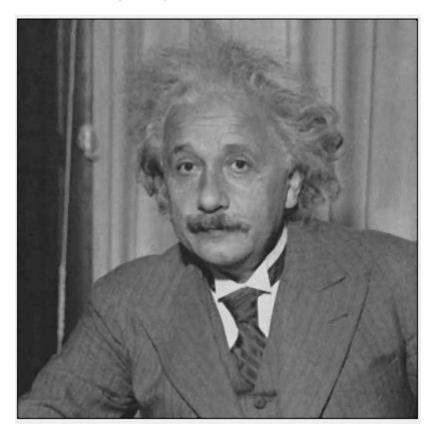
Şekil 23-5x5 Median Filtered Image



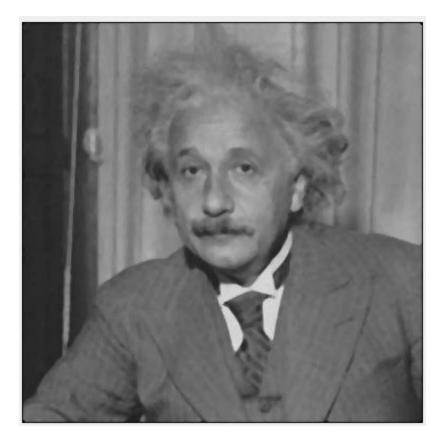
Şekil 24-7x7 Median Filtered Image



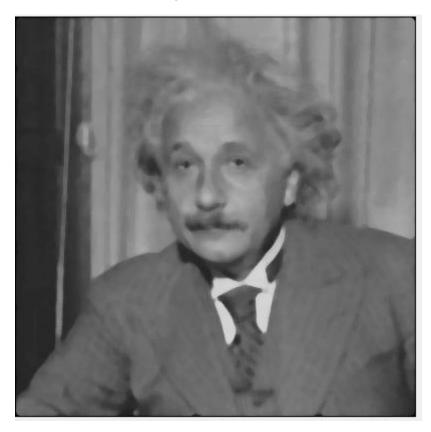
Şekil 25-Einstein1 Original Image



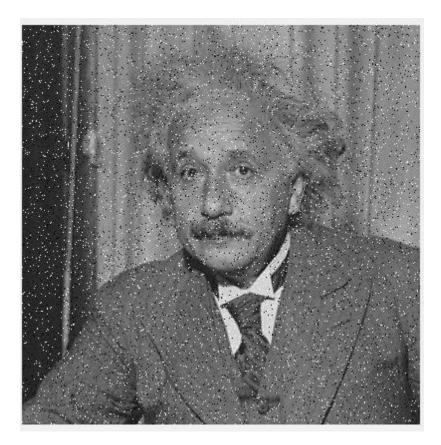
Şekil 26-3x3 Median Filtered Image



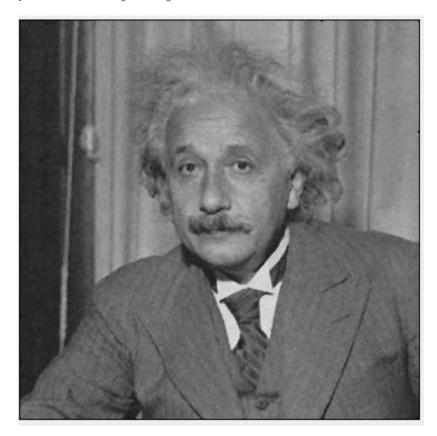
Şekil 27-5x5 Median Filtered Image



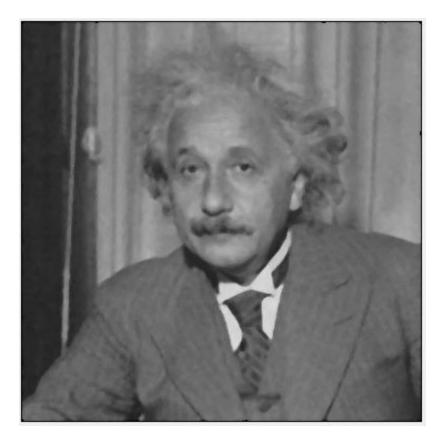
Şekil 28-7x7 Median Filtered Image



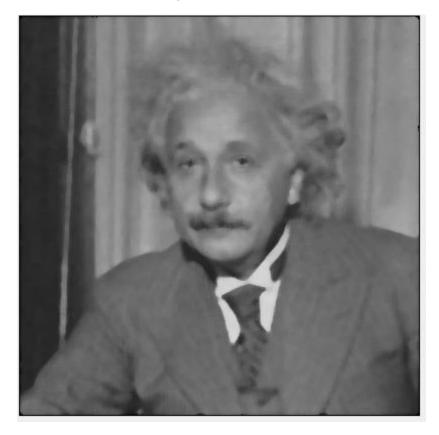
Şekil 29-Einstein2 Original Image



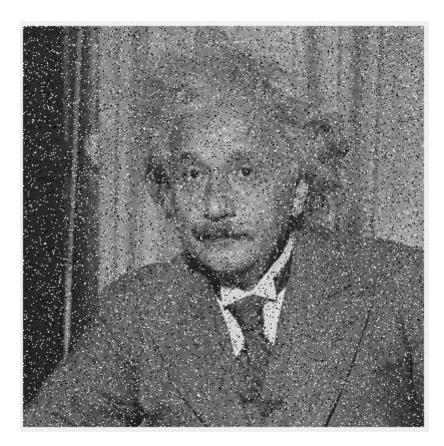
Şekil 30-3x3 Median Filtered Image



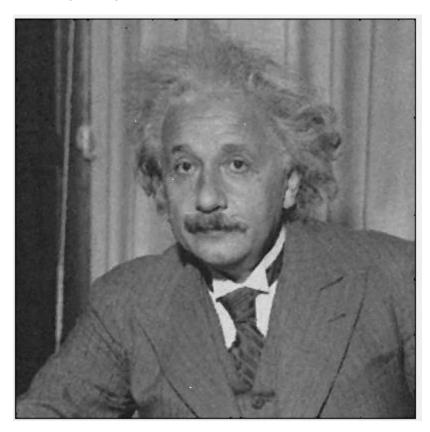
Şekil 31-5x5 Median Filtered Image



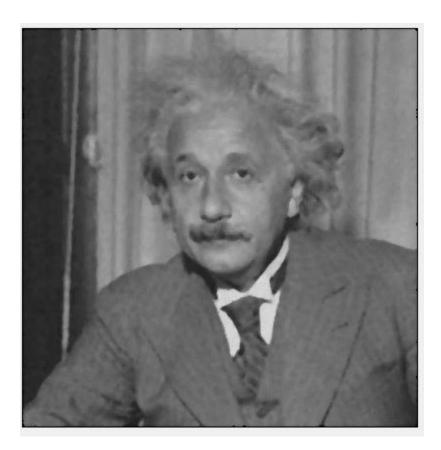
Şekil 32-7x7 Median Filtered Image



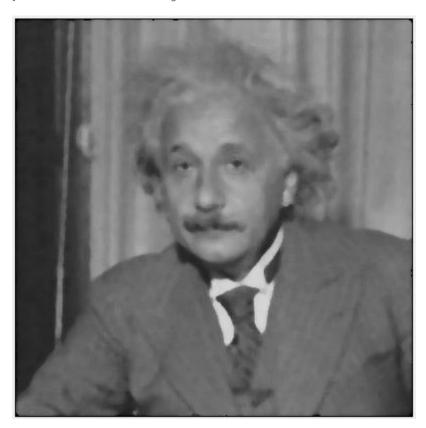
Şekil 33-Original Image



Şekil 34-3x3 Median Filtered Image



Şekil 35-5x5 Median Filtered Image



Şekil 36-7x7 Median Filtered Image

2.



Şekil 37-Original Image



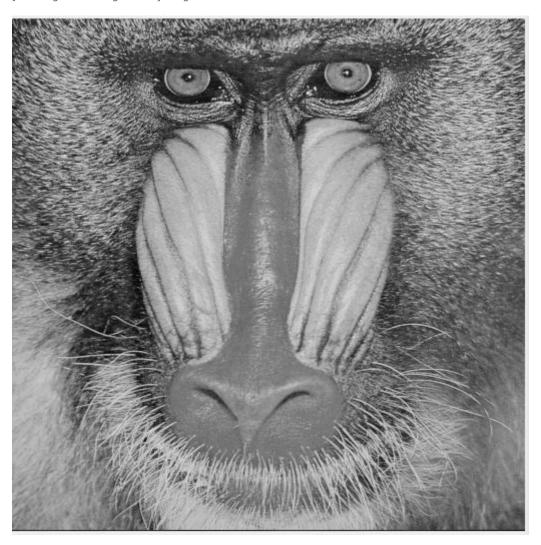
Şekil 38-hx filtered image



Şekil 39-hy filtered image



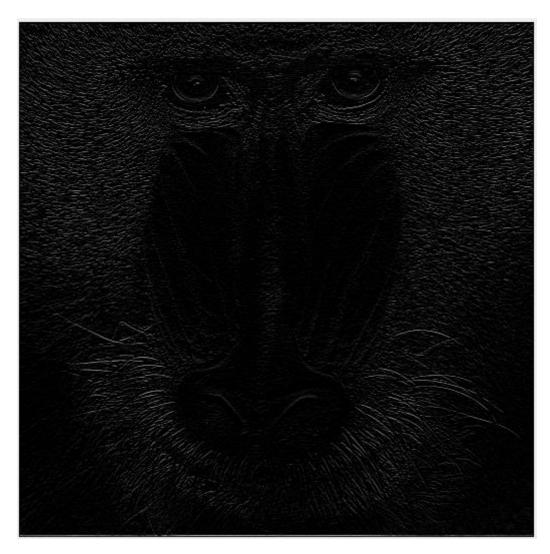
Şekil 40-gradient magnitude of image



Şekil 41-Original Image



Şekil 42-hx filtered image



Şekil 43-hy filtered image



Şekil 44-gradient magnitude of image



Şekil 45-Original Image



Şekil 46-hx filtered image



Şekil 47-hy filtered image



Şekil 48-gradient magnitude of image