

Image processing project Documentation

Team members:

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- 2- Alaa shaher
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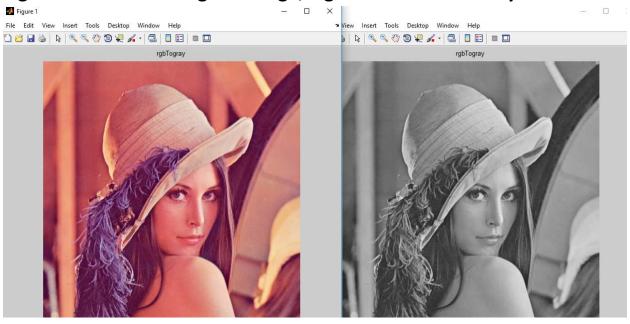
Under the Supervision of:

Doc. Mazen Ahmed Selim

Eng. Doaa

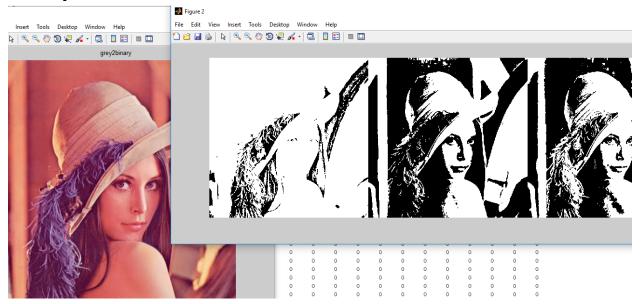
1-RGB2GRAY

Figure 1 shows the original image, Figure 2 shows the Grey one



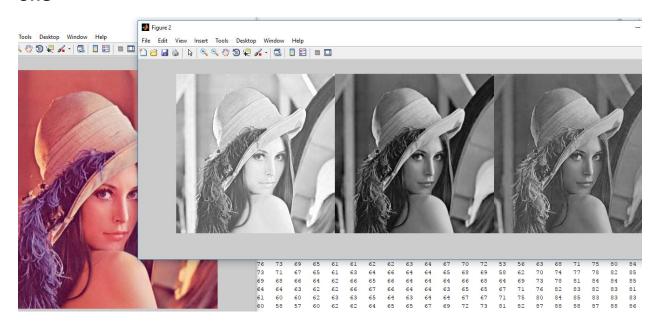
2-RGb2binary

Figure 1 shows the original image, Figure 2 shows the binary one



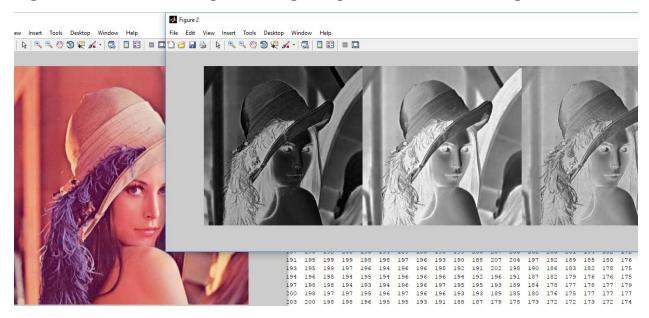
3-point processing Brightness

Figure 1 shows the original image, Figure 2 shows the Brightness one



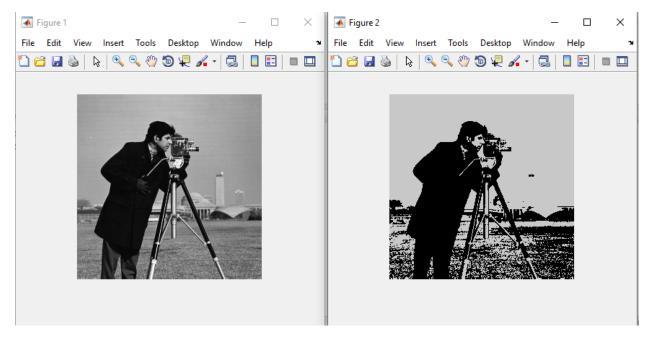
4-point processing negative

Figure 1 shows the original image, Figure 2 shows the negative one



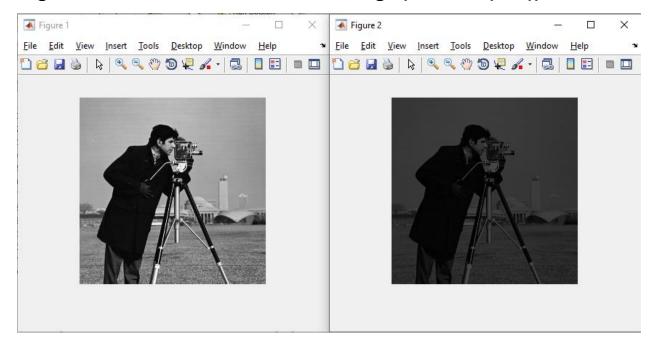
5-point processing contrast

Figure 1 shows the original image, Figure 2 shows contrast applying



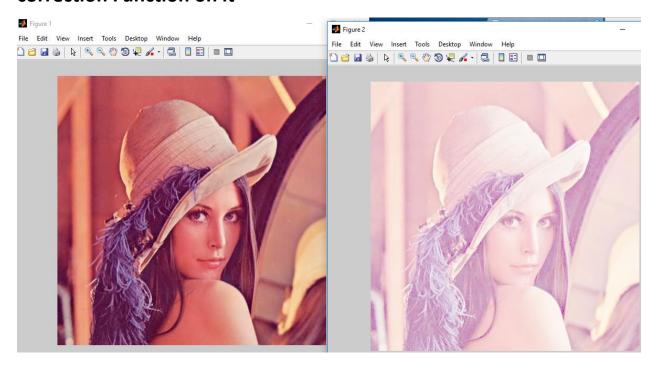
6-point processing log-transformation

Figure 1 shows the original image, Figure 2 shows the applying of Log Transformation Function on this image (S=C*LOG(1+R))



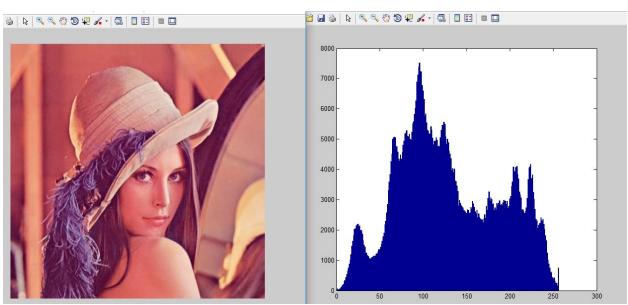
7-point processing gamma-correction

Figure 1 shows the original image, Figure 2 shows applying gamma correction Function on it



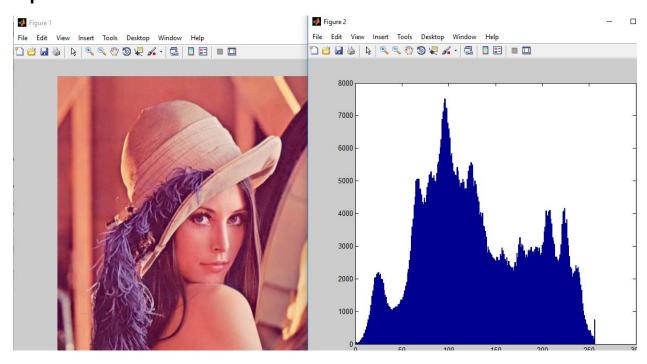
8-Histogram

Figure 1 shows the original image, Figure 2 shows its Histogram



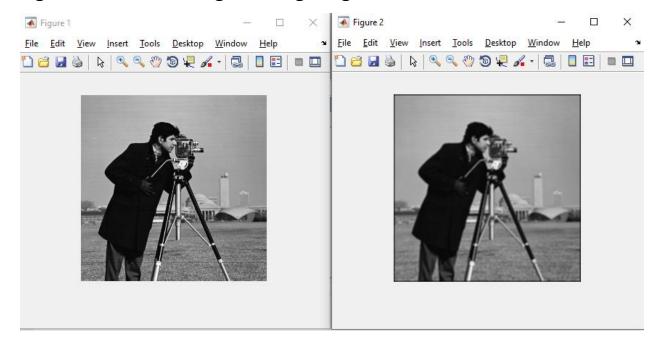
9- Histogram Equalization

Figure 1 shows the original image, Figure 2 shows its Histogram Equalization Function



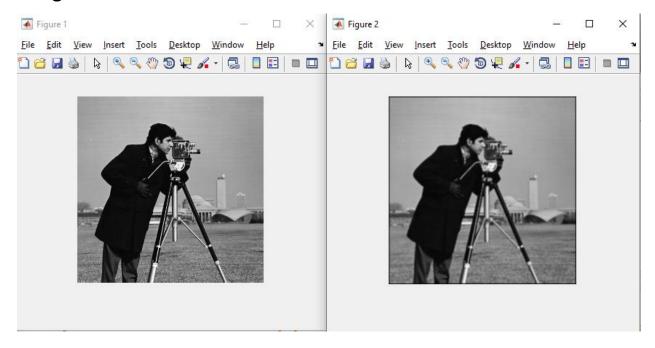
10-Mean Filter

Figure 1 shows the original image, Figure 2 shows Mean Filter



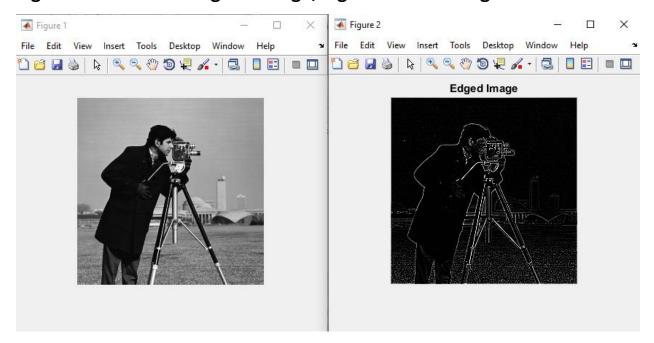
11-Weight Filter

Figure 1 shows the original image, Figure 2 shows applying the Weight Filter



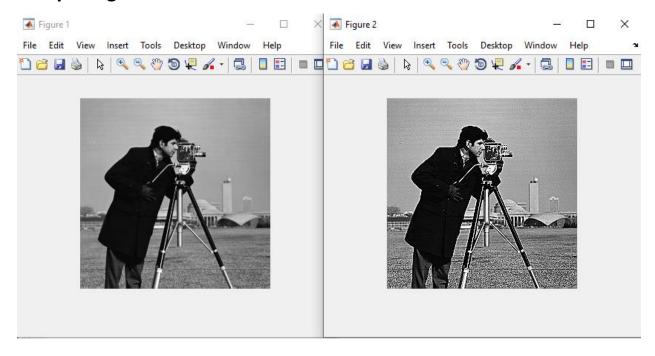
12- Edge Detection

Figure 1 shows the original image, Figure 2 shows Edge detection



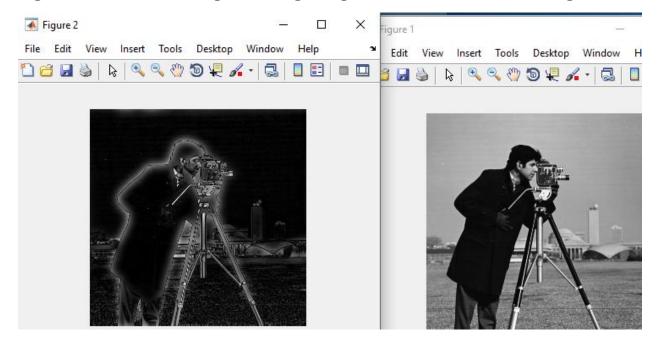
13- Sharpening Filters

Figure 1 shows the original image, Figure 2 shows applying the Sharpening Filter



14- Gaussian High pass Filter

Figure 2 shows the original image, Figure 1 Shows Gaussian High



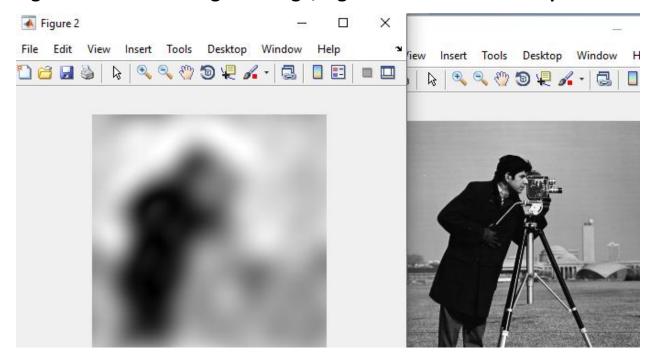
15- Gaussian Low pass Filter

Figure 1 shows the original image, Figure 2 Shows Gaussian Low



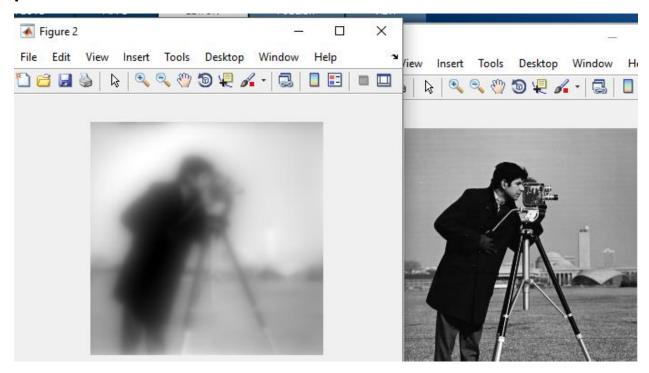
16- Ideal low pass Filter

Figure 2 shows the original image, Figure 1 Shows Ideal Low pass



17- Butterworth Low pass Filter

Figure 2 shows the original image, Figure 1 Shows Butterworth Low pass Filter



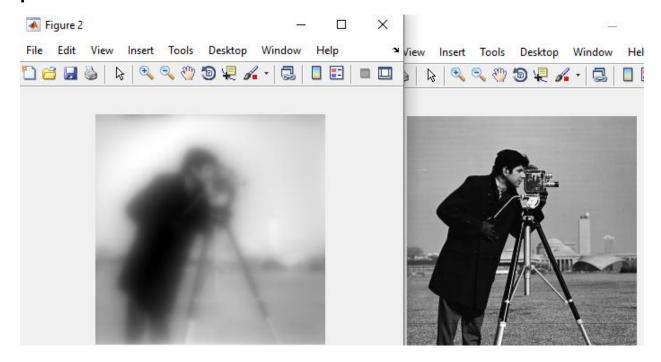
18- Ideal High pass filter

Figure 2 shows the original image, Figure 1 shows ideal High pass Filter



19- Butterworth High pass Filter

Figure 2 shows the original image, Figure 1 shows Butterworth High pass Filter



20- Salt and pepper noise

