EE5175:IMAGE SIGNAL PROCESSING

LAB-4

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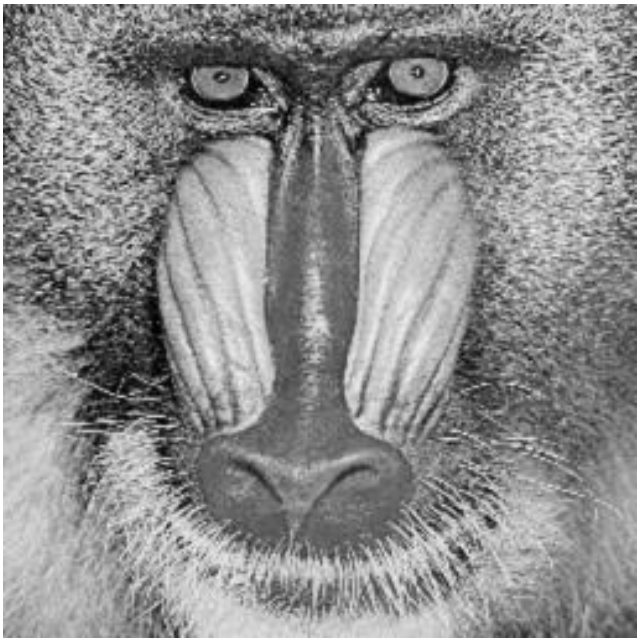
EE20S049

1.Perform Gaussian blurring on Mandrill.pgm with standard deviation σ. Assume space-invariant blur and a kernel of size ⌈6σ+1⌉×⌈6σ+1⌉. Observe the outputs for these values of σ: 1.6, 1.2, 1.0, 0.6, 0.3 and 0.0.

Input:



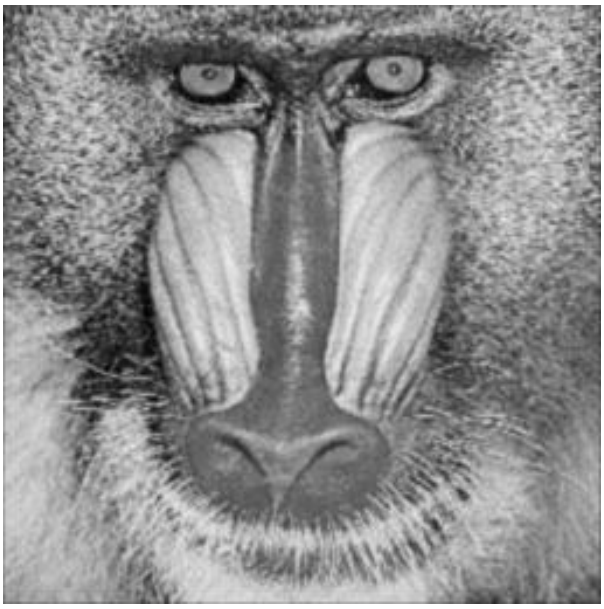
Outputs:

sigma=1.6:

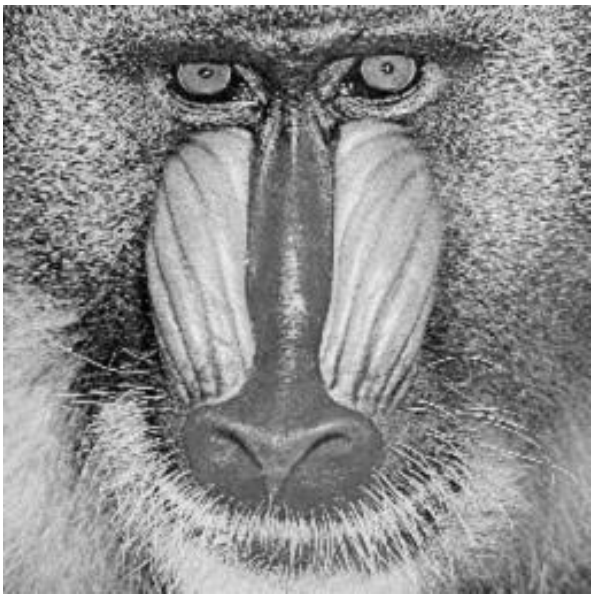
sigma=1.2:

sigma=1:

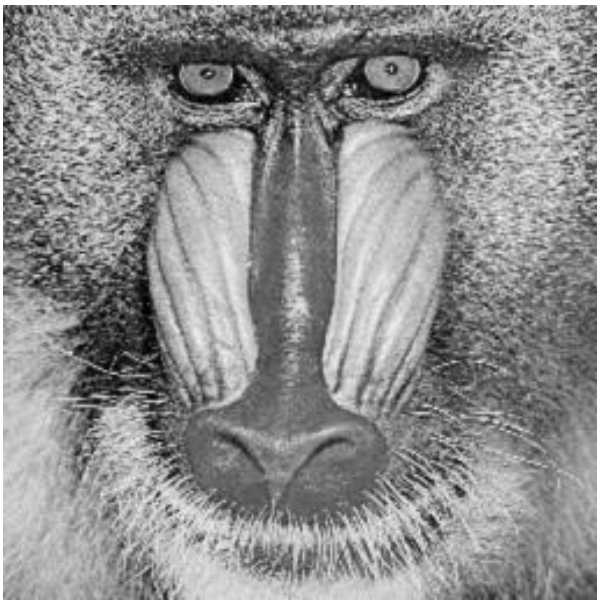
sigma=0.6:



sigma=0.3:



sigma=0:



Observations: As the value of **standard deviation σ** decreases, blurring also decreases.