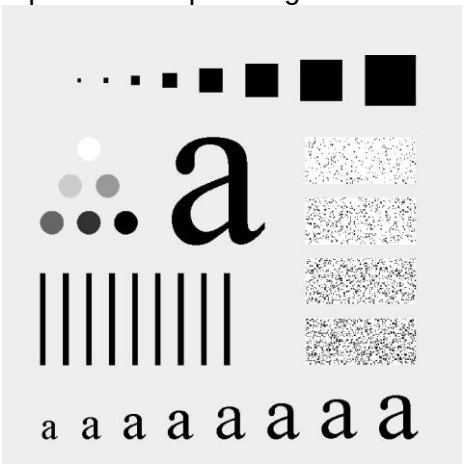
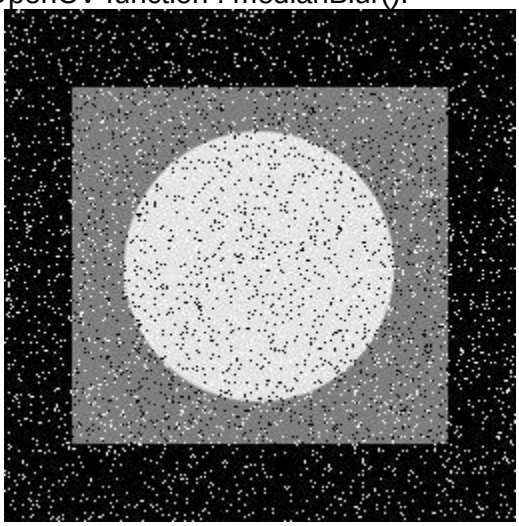
Lab2: Image Filtering using OpenCV

Ex1. Manipulating Image Pixels
Given the image “a.jpg” attached with this document, you’re required to increase the brightness by 10 intensity level. Can you explain the output image?



Ex2. Given the image “pout.jpg”, you’re required to implement a transformation to output an image with higher contrast.

Ex3. Given the image “sap,jpg” try to implement a suitable filter that would decrease the salt and pepper noise effects.
Compare your results with OpenCV function : medianBlur().



Opencv functions that would

- medianBlur(src,dst,size)
- GaussianBlur(src,dst,Size,sigma)
- blur(src,dst,size)
- filter2d(src,dst,image.depth(),kernel) → kernel is a custom made filter that the image will be convoluted with.