

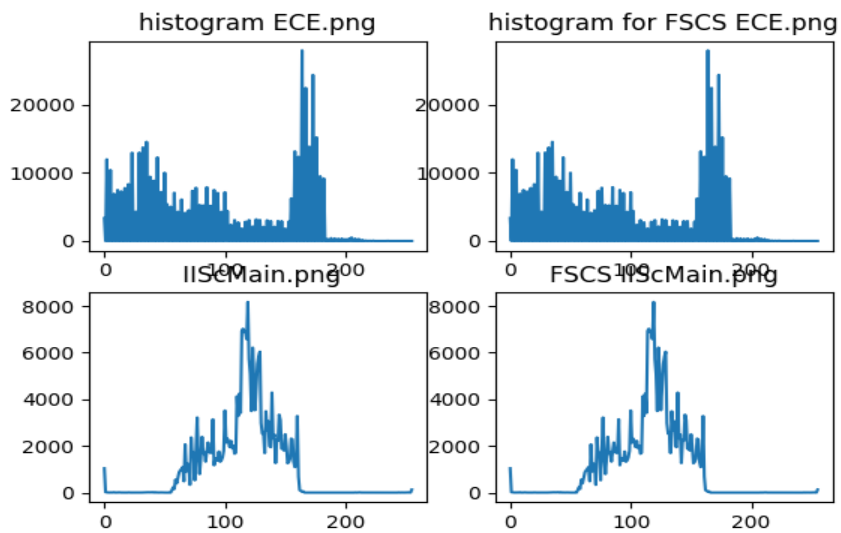
Report – DIP Assignment-02

Vedpal Jangir (19299)

MTech-AI

Sol-01: -

FCSC: output-



original image



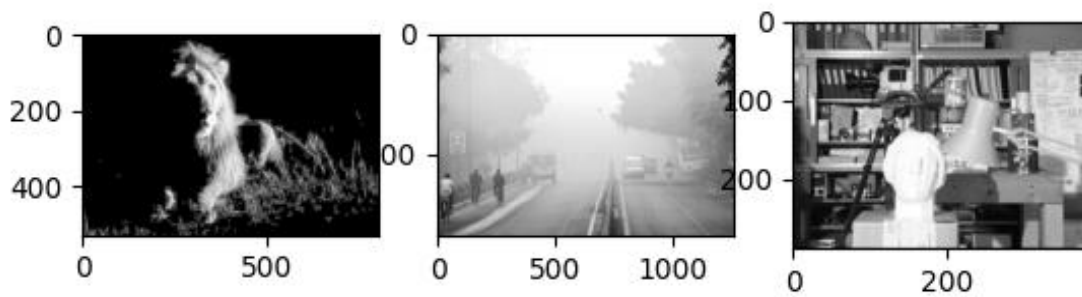
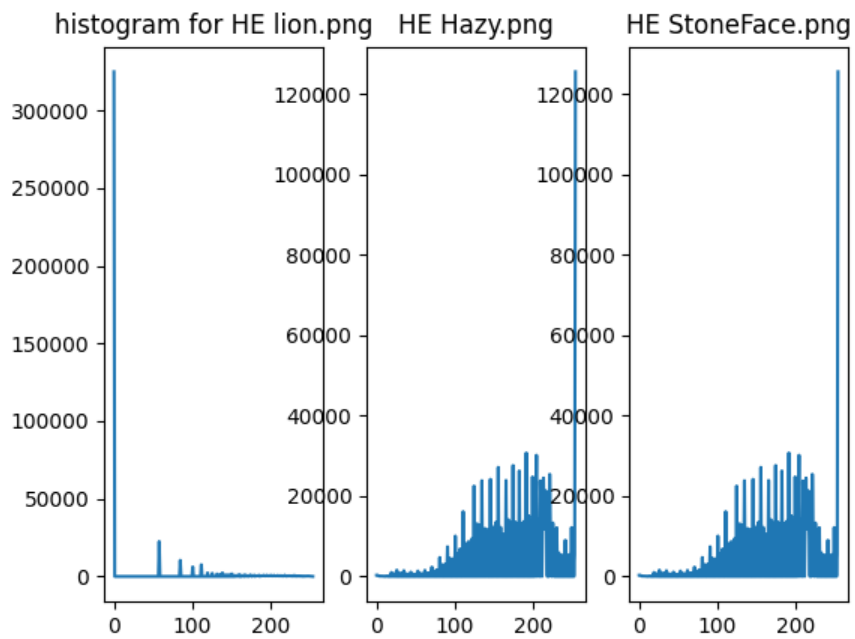
Fscs image



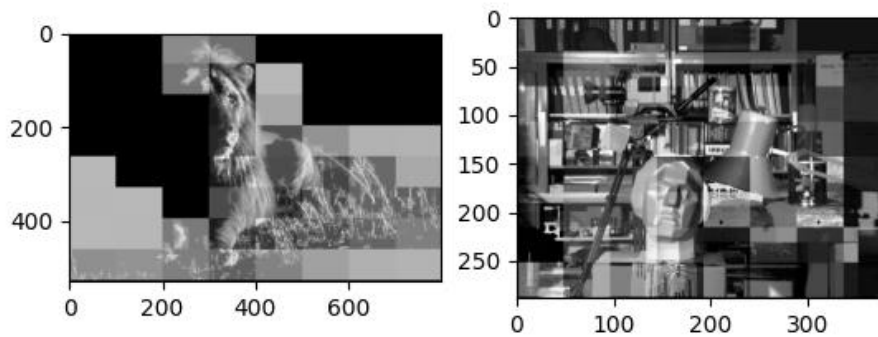
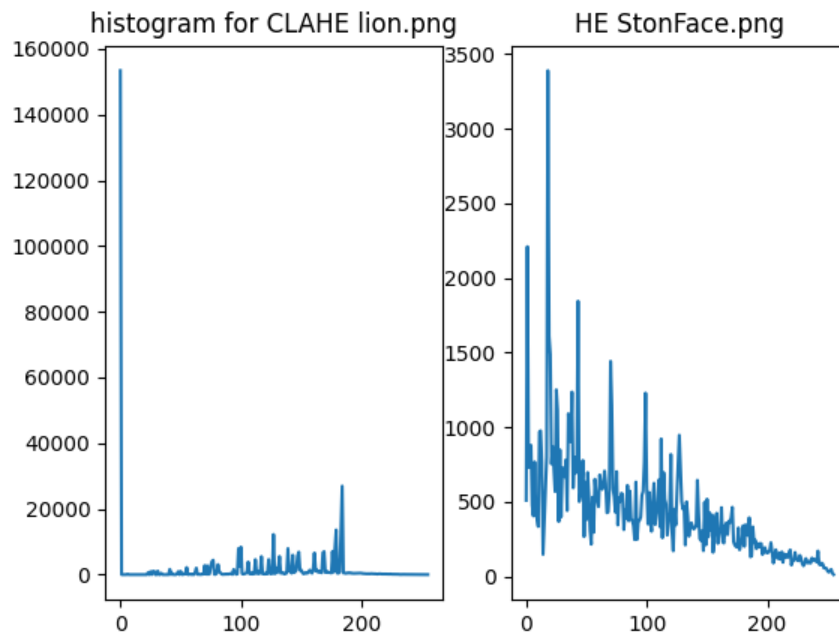
Here $A(\min) = 0$ and $B(\max) = 255$

So, $J = 255 * (I - A) / (B - A) = I$

Histogram Equalization

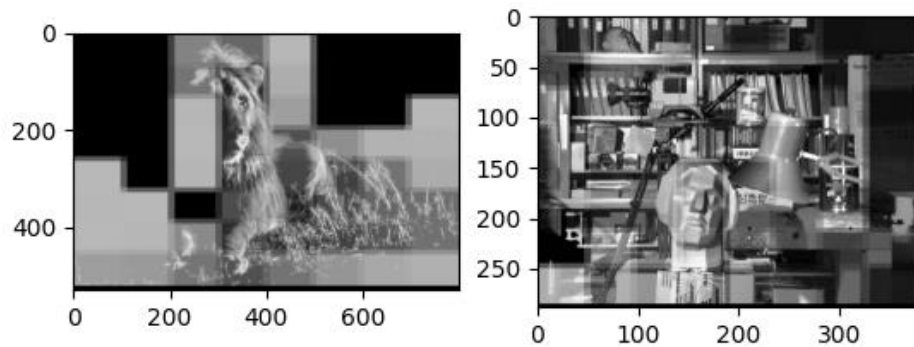
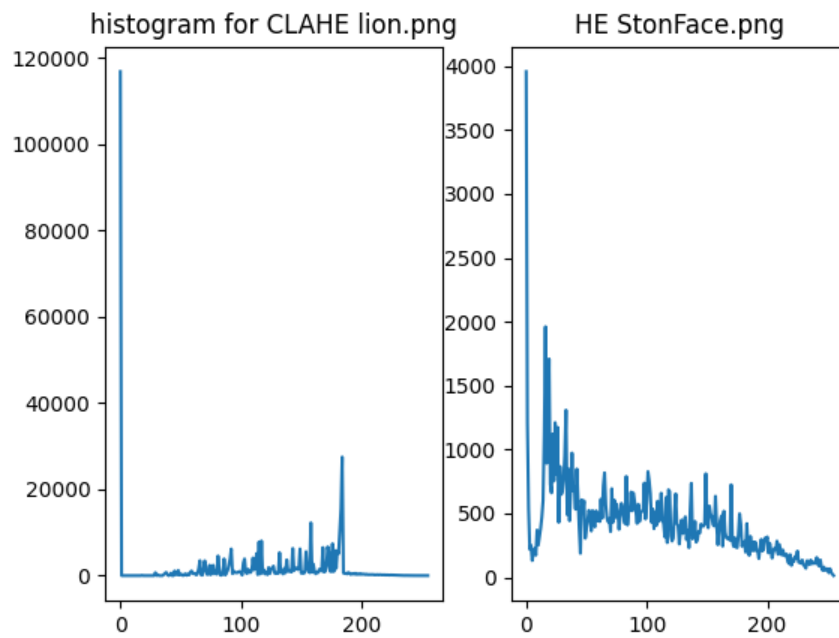


CLAHE without overlap



CLAHE with overlap :

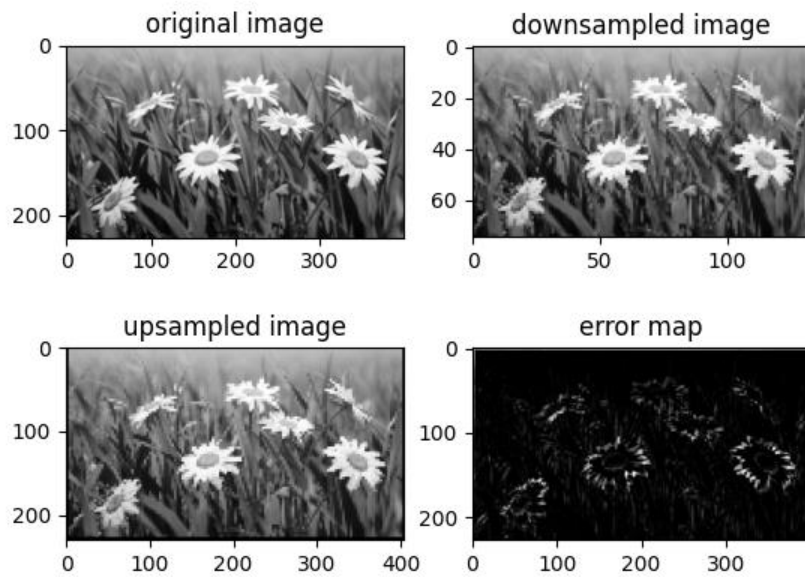
Clip = 0.7 for both overlapping and without overlapping



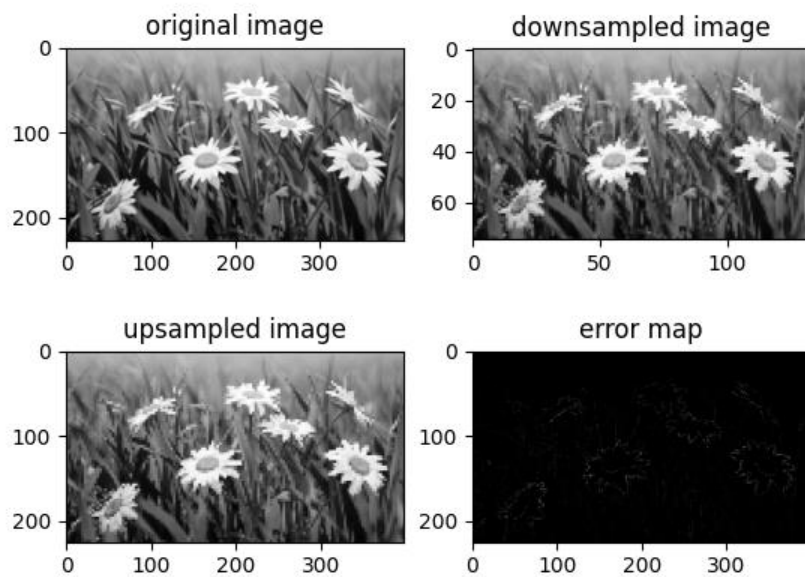
Sol-02: -

Output ...

using nearest neighbor interpolation



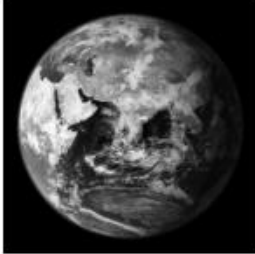
Using bilinear interpolation



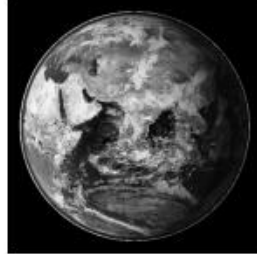
Sol-03: -

For $k = 1$ unsharp masking...

clean image



blured image

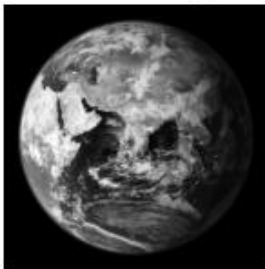


noisy image

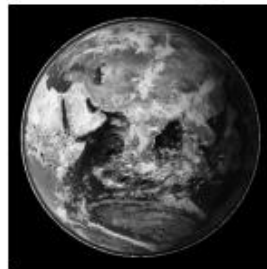


For $k = 3$ or $k > 1$ high boost filtering...

clean image



blured image



noisy image

