**Homework Assignment #2 – PSNR Calculation**

Due: October 7th, 2018.

Write a program which calculates PSNR value in dB for all components (such as Y, U, and V) of a given reconstructed .yuv file. The program should take the names of original and reconstructed .yuv files, resolution and chroma subsampling as command line arguments or over some GUI.





Sample usage:

> psnr.exe <original\_File\_name> < reconstructed \_File\_name> <WidthxHeight> <chroma\_subsampling>

> psnr.exe balloons\_orig.yuv balloons\_rec.yuv 720x480 4:2:0

> Y-PSNR = 36.455 dB

> U-PSNR = 37.455 dB

> V-PSNR = 37.655 dB

Submit your findings in the report to dropbox and source code by email.