

1. Perform Image or audio steganography by using LSB method. Design three different algorithms as follows:
  - a) Change 1<sup>st</sup> LSB of each pixel/sample
  - b) Change 4<sup>th</sup> LSB bit of each pixel/sample and perform no flip to next LSB bits
  - c) Change 4<sup>th</sup> LSB bit of each pixel/sample and flip the next LSB bits.
2. Calculate MSE for three algorithms and write which algorithm is the best suited for your input data.

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Note:

- LSB – Least Significant Bit
- MSE- Mean Square error

For MSE calculation, refer this link

<https://www.mathworks.com/help/vision/ref/psnr.html>