Lab Assignment-1(a)

Octave/MATLAB / Python / Open CV / R

%PROBLEM-1%

1. Form an image "A" of dimension 16x16 containing 16 vertical strips.
2. Form a check-board "B" of dimension 16x16 containing 16 blocks.
3. Form an image "C" of dimension 64x64 containing top-left and bottom-right quarter parts A and top-right & bottom-left quarters B.

%PROBLEM-2%

1. Break the cameraman image "C" of dimension 256x256 into four equal square shapes C11, C12, C21 & C22 and display all into a single figure of 2x2 dimensions.
2. Now interchange the C11 & C22 and C12 & C21 and show the image.

%PROBLEM-3%

1. Form an image of vertical ramp having a ramp values from 0 to 255 and dimension 256x256.
2. Form an image of a circle of radius of 50 pixels and dimension 256x256.
3. Now superimpose the circle to cameraman image to get the circular part of cameraman image.
4. Form an image of a disc of Inner radius=50 pixels and outer radius=100 pixels.