Image and Video processing (IIVP)
Lab Assignment-2
Octave/MATLAB

%PROBLEM%

Time: 1Hr
Date-18/08/2020

Do not use any inbuilt function

1. Read the image I1 and do the following without using any inbuilt function:
   a. Calculate Mirror image (I2) of the original image (I1).Show both the images simultaneously.
   b. Concatenate I1 and I2 horizontally and show the output image.
   c. Concatenate I1 and I2 vertically and show the output image.

2. Read Lena image and convert it into gray scale(without using rgb2gray function). Check whether the image is 4-Connected, 8-Connected or m-Connected.
   Given:-
   - Set intensity values:- V = {1:86},
   - Source point Coordinates:- P=Lena(37,6)
   - Destination point Coordinates:- Q= Lena(33,10).

   Do the following **if exists**:
   - Plot the path for 4-connectivity. Is the path unique?
   - Plot the path for 8-connectivity. Is the path unique if not then find the shortest path
   - Plot the path for m-connectivity. Is the path unique? If not then find the shortest path

3. Find out the total region formed with 4, 8 or m connectivity in Lena image.
   Given:-
   - Set intensity values V = {1:86}