Neeral Appari Tor 3
SHETH L.U.J. COLLEGE OF ARTS & Date SIR M.V. COLLEGE OF SCIENCE & COMMERCE 19/0/22 **Department of Computer Science** Digital Image Processing Practical - 07 Flim. Write a python program for negative of image.
Log transformation and gamma correction Vescription -Delegative of Image

a) Image regative means inverting the grey levels

b) The regative of a digital image is obtained

transformation tenction. S= T(8)=L-1-8 0 (0,1-1) the range of grey levels. 2) Logarithmic transformation.
2) a) There are two of log log transformation ria) log transformation and ii) inverse log hons formation

Dlog transformation is also known as lynamic Range compression Olog transformation can be defined as 3) Power Gamma correction (power transformation)

20) Power law transformation are of two types inth power

transformation and ii) nth root transformation

6) Power law transformation have a basic form of 1) The exponent in the power-low equator is reflired

Read an image img bgr = cv2.imread('SCG003Sgray.jpg', 1) plt.imshow(img_bgr) plt.show() print("Neeraj Appari T073")
get height and width of the image 100 height, width, _ = img_bgr.shape 200 300 for i in range(0, height - 1): for j in range(0, width - 1): 400 500 # Get the pixel value pixel = img_bgr[i, j] 600 700 -# Negate each channel by 1000 1400 200 600 800 1200 400 # subtracting it from 255 # 1st index contains red pixel pixel[0] = 255 - pixel[0] # ← → + Q = B # 2nd index contains green pixel pixel[1] = 255 - pixel[1]# 3rd index contains blue pixel pixel[2] = 255 - pixel[2]# Store new values in the pixel ima harli il - nival

Figure 1

a p1-a.py - E/fffiiles/college pracs and projects/DIP/p1-a.py (3.9.6)
File Edit Format Run Options Window Help

import cv2

Type here to search

import matplotlib.pyplot as plt













