

	INTRODUCTION
	NAME: DHRUV DESAI COLLEGE: CHAROTAR UNIVERSITY OF TECHNOLOGY(CSPIT) BRANCH: COMPUTER ENGINEERING YEAR: SECOND
	Content-Mini_project_2_Report Aim: Create an 8x8 checkerboard using NumPy and OpenCV One can use loop (for, while) to get the answer. Code: import numpy as np import cv2 def create_checkerboard(): board = np.zeros((8, 8), dtype=np.uint8) board[::2, 1::2] = 255 board[1::2, ::2] = 255 return board def create_rgb_checkerboard(): board = np.zeros((800, 800, 3), dtype=np.uint8) block_size = 100 for i in range(8): for j in range(8): if create_checkerboard()[i][j] == 255: board[i*block_size:(i+1)*block_size, j*block_size:(j+1)*block_size, :] = 255 return board checkerboard = create_rgb_checkerboard() cv2.imshow("Checkerboard", checkerboard) cv2.waitKey(0) cv2.destroyAllWindows()

OUTPUT:

