15. Perform transformation using Direct Linear Transformation

Program

import cv2  
import numpy as np  
  
img1 = cv2.imread("C:/Users/sidda/OneDrive/Desktop/py/Mario-Sparks-of-Hope-4K-Ultra-HD-Mobile-Wallpaper-950x1689.jpg")  
img2 = cv2.imread("C:/Users/sidda/OneDrive/Desktop/py/pexels-eberhard-grossgasteiger-534164.jpg")  
  
pts1 = np.array([[50, 50], [200, 50], [50, 200], [200, 200]])  
pts2 = np.array([[100, 100], [300, 100], [100, 300], [300, 300]])  
  
H, \_ = cv2.findHomography(pts1, pts2)  
  
dst = cv2.warpPerspective(img1, H, (img2.shape[1], img2.shape[0]))  
  
cv2.imshow('img1', img1)  
cv2.imshow('img2', img2)  
cv2.imshow('dst', dst)  
cv2.waitKey(0)  
cv2.destroyAllWindows()

output  
  
