12. Perform Perspective Transformation on the image.

Program

# import required libraries  
import cv2  
import numpy as np  
# read the input image  
img = cv2.imread("C:/Users/sidda/OneDrive/Desktop/py/Mario-Sparks-of-Hope-4K-Ultra-HD-Mobile-Wallpaper-950x1689.jpg")  
# find the height and width of image  
# width = number of columns, height = number of rows in image array  
rows,cols,ch = img.shape  
# define four points on input image  
pts1 = np.float32([[56,65],[368,52],[28,387],[389,390]])  
# define the corresponding four points on output image  
pts2 = np.float32([[100,50],[300,0],[0,300],[300,300]])  
# get the perspective transform matrix  
M = cv2.getPerspectiveTransform(pts1,pts2)  
# transform the image using perspective transform matrix  
dst = cv2.warpPerspective(img,M,(cols, rows))  
# display the transformed image  
cv2.imshow('Transformed Image', dst)  
cv2.waitKey(0)  
cv2.destroyAllWindows()

Output

