**Pixel manipulation for image encryption(TASK 1)**

from PIL import Image

def encrypt\_image(input\_path, output\_path, key):

    img = Image.open(input\_path)

    pixels = img.load()

    width, height = img.size

    for i in range(width):

        for j in range(height):

            r, g, b = pixels[i, j]

            encrypted\_pixel = (b, g, r)

            pixels[i, j] = encrypted\_pixel

    img.save(output\_path)

    print("Image encrypted successfully!")

def decrypt\_image(input\_path, output\_path, key):

    img = Image.open(input\_path)

    pixels = img.load()

width, height = img.size

for i in range(width):

        for j in range(height):

r, g, b = pixels[i, j]

decrypted\_pixel = (b, g, r)

pixels[i, j] = decrypted\_pixel

  img.save(output\_path)

    print("Image decrypted successfully!")

input\_image = r"C:\Users\megha\OneDrive\Desktop\internship\input.jpg"

encrypted\_image = r"C:\Users\megha\OneDrive\Desktop\internship\encrypted\_image.jpg"

decrypted\_image = r"C:\Users\megha\OneDrive\Desktop\internship\decrypted\_image.jpg"

encrypt\_image(input\_image, encrypted\_image, key=None)

decrypt\_image(encrypted\_image, decrypted\_image, key=None).