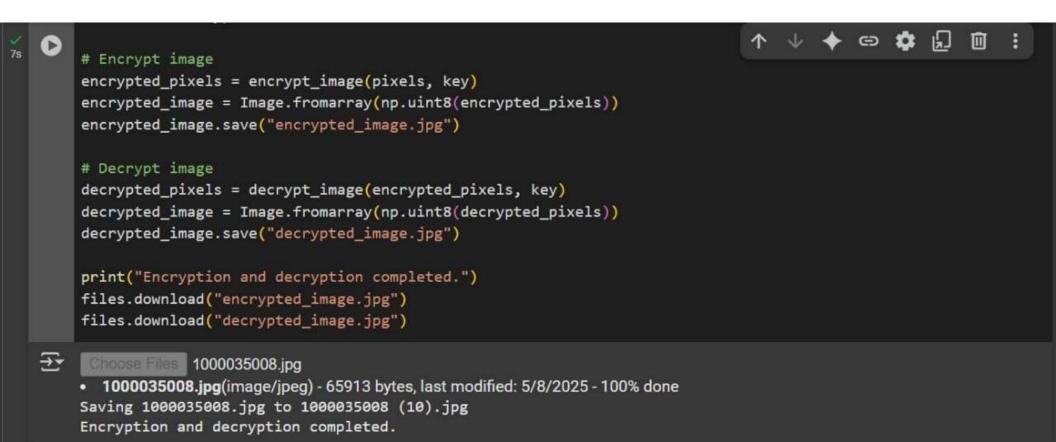
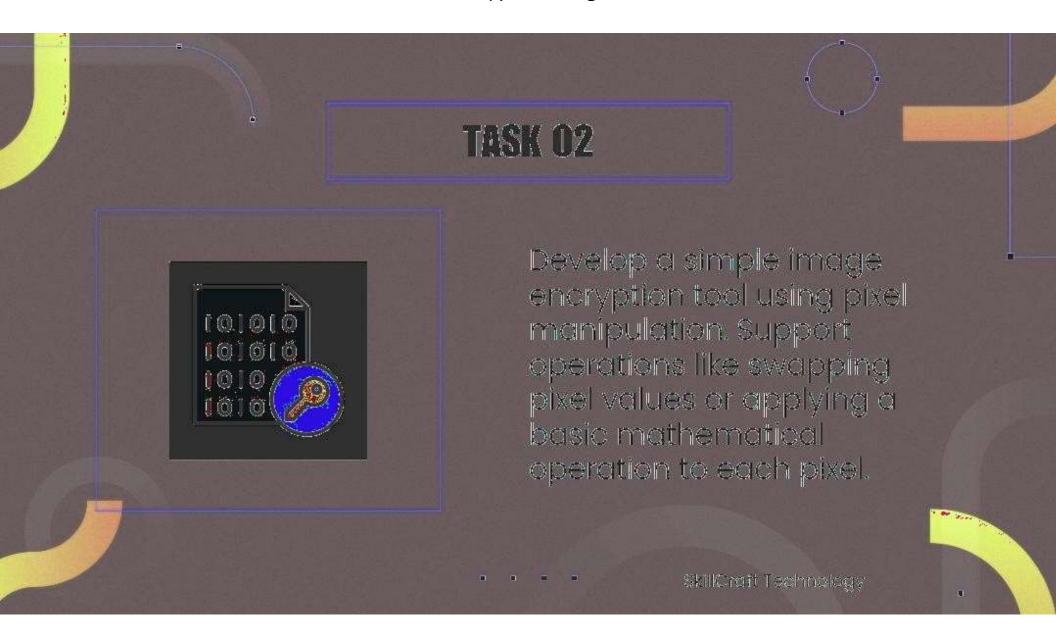
```
from google.colab import files
    uploaded = files.upload()
    from PIL import Image
    import numpy as np
    # Load image
    image = Image.open("1000035008.jpg")
    pixels = np.array(image)
    # Encryption key
    key = 50
    # Encryption function (adds key and swaps RGB values)
    def encrypt_image(pixels, key):
        pixels = pixels.astype(np.int16) # Prevent overflow
        encrypted = (pixels + key) % 256
        encrypted = encrypted.astype(np.uint8) # Back to image-safe format
        encrypted = encrypted[..., ::-1] # Swap RGB
        return encrypted
    # Decryption function
    def decrypt_image(pixels, key):
        pixels = pixels.astype(np.int16)
```

```
def decrypt_image(pixels, key):
         pixels = pixels.astype(np.int16)
         decrypted = pixels[..., ::-1]
         decrypted = (decrypted - key) % 256
         decrypted = decrypted.astype(np.uint8)
         return decrypted
     # Encrypt image
     encrypted_pixels = encrypt_image(pixels, key)
     encrypted_image = Image.fromarray(np.uint8(encrypted_pixels))
     encrypted image.save("encrypted image.jpg")
     # Decrypt image
     decrypted_pixels = decrypt_image(encrypted_pixels, key)
     decrypted_image = Image.fromarray(np.uint8(decrypted_pixels))
     decrypted image.save("decrypted image.jpg")
     print("Encryption and decryption completed.")
     files.download("encrypted image.jpg")
     files.download("decrypted image.jpg")
∓₹
     @hassa #ilas 1000035008.jpg

    1000035008.jpg(image/jpeg) - 65913 bytes, last modified: 5/8/2025 - 100% done
```



Encrypted image



Decrypted Image



SkillCraft Technology

pixel values or applying a

operation to each pixel.

basic mathematical