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# QR Code Generator App
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# This program creates and saves a QR code for any text or link entered by the
# user.

import qrcode

def generate_qr():
    print("===== QR CODE GENERATOR =====")

    # Step 1: Take input from user
    data = input("Enter the text or link to generate a QR code: ")

    # Step 2: Ask user for filename
    file_name = input("Enter a name for your QR code image (without extension):")
    if file_name.strip() == "":
        file_name = "my_qr"

    # Step 3: Create a QR code object with some customization
    qr = qrcode.QRCode(
        version=1,           # controls the size (1 = smallest)
        error_correction=qrcode.constants.ERROR_CORRECT_H, # high error
        correction
        box_size=10,         # size of each box
        border=4            # thickness of border
    )

    # Step 4: Add data to the QR code
    qr.add_data(data)
    qr.make(fit=True)

    # Step 5: Create an image (you can change colors here)
    img = qr.make_image(fill_color="black", back_color="white")

    # Step 6: Save the image
    img.save(f"{file_name}.png")
    from google.colab import files
    files.download(f"{file_name}.png")

    # Step 7: Completion message
    print(f"✅ QR code generated successfully as '{file_name}.png'")

# Run the app
generate_qr() # This line is uncommented to run the function
```