This Project is Created By Jyotirmay Chowdhury.

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This Python code generates a QR code image for a given URL (web address) provided by the user. Here's a step-by-step explanation of how it works:

1. `import qrcode`: This line imports the "qrcode" library, which allows you to create QR codes.

2. `def generate_qrcode(text):`: This line defines a function called `generate_qrcode` that takes one parameter called `text`. This parameter represents the text (in this case, a URL) for which you want to generate a QR code.

3. Inside the `generate_qrcode` function:

   - `qr = qrcode.QRCode(...)`: This code initializes a QR code object (`qr`) with specific settings:

      - `version = 1`: Specifies the version of the QR code (in this case, version 1).
      - `error_correction = qrcode.constants.ERROR_CORRECT_L`: Sets the error correction level to low (L).
      - `box_size = 10`: Determines the size of each small square box in the QR code.
      - `border = 4`: Sets the border size around the QR code.
   - `qr.add_data(text)`: Adds the input text (the URL) to the QR code.

   - `qr.make(fit=True)`: Generates the QR code based on the provided settings and input text. The `fit=True` parameter ensures that the QR code adjusts its size to fit the content.

   - `img = qr.make_image(fill_color="black", back_color="white")`: Creates an image (`img`) representation of the QR code. It sets the fill color to black and the background color to white.

   - `img.save("qrimg001.png")`: Saves the generated QR code image as "qrimg001.png" in the current directory.

4. `url = input("Enter your URL: ")`: This line prompts the user to enter a URL and stores it in the variable `url`.

5. `generate_qrcode(url)`: Calls the `generate_qrcode` function, passing the user-entered URL as an argument. This generates the QR code for the provided URL

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and saves it as "qrimg001.png" in the same directory as the script.

In summary, this code allows the user to input a URL, and it then creates a QR code for that URL with specific settings, saves it as an image, and names it "qrimg001.png" in the current directory. This QR code can be used for various purposes, such as linking to websites or sharing information digitally.