# QR Code Program with Python Documentation

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## Purpose

This project is designed for the Advanced Python Class by Muzaffar Ali. The QR Code Program generates a QR code from a user-provided URL and saves it as an SVG file.

## Requirements

- pyqrcode: Imports the QRCode class from the pyqrcode module.

## Environment Setup

1. Ensure Python is installed on your system.  
2. Install the required pyqrcode library using the following command:  
```  
pip install pyqrcode  
```

## Execution

1. Save the provided code in a file named `qr\_code\_generator.py`.  
2. Open a terminal or command prompt.  
3. Navigate to the directory where `qr\_code\_generator.py` is saved.  
4. Run the program using the command:  
```  
python qr\_code\_generator.py  
```

## How It Works

1. Prompt User for URL:  
 - The user is prompted to enter a URL to encode into the QR Code.  
  
2. Generate QR Code:  
 - The QRCode class from the pyqrcode module is used to generate a QR code from the provided URL.  
  
3. Prompt User for File Name:  
 - The user is prompted to enter the desired file name for the QR Code.  
 - The .svg extension is appended to the file name.  
  
4. Save QR Code as SVG:  
 - The generated QR code is saved as an SVG file with the specified file name.  
  
5. Print QR Code to Terminal:  
 - The QR code is printed to the terminal in a readable format using the terminal method of the QRCode object.

## Output

The program generates a QR code from the provided URL and saves it as an SVG file. It also prints the QR code to the terminal in a readable format.