QR CODE GENERATION

INTRODUCTION:

- A **QR (Quick Response) code** is a machine-readable code used to store and quickly access digital information.
- In this project, **Python programming language** is used to generate a QR code.
- The **`qrcode` package** in Python is used to create and customize the QR code image.
- This package provides simple functions to **encode text data, control size, error correction level, and generate QR images**.
- The generated QR code stores **important project information in digital form**.
- The QR code acts as a **digital identity tag** for the project.
- By scanning the QR code, evaluators can instantly view the **project summary and details**.
- This improves the **professional presentation, digitalization, and documentation quality** of the report.

WHY QR CODE IS NEEDED:

1. **Quick Access to Information**
    - Project details can be accessed instantly using a QR scanner.
2. **Use of Python QR Package**
    - The `qrcode` **package** makes QR generation **easy, fast, and reliable**.
3. **Digital Verification**
    - Acts as a **digital proof** of project information.
4. **Professional Presentation**
    - Makes the report look **modern and technically advanced**.
5. **Compact Information Storage**
    - Large text data is stored inside a **small QR image**.
6. **Error-Free Information Sharing**
    - Avoids mistakes from manual typing or copying.
7. **Easy to Integrate**
    - The generated QR image can be added to:
    - Report
    - PPT
    - Project cover page

8. **Supports Digital Evaluation**
    - Teachers can verify details **without opening the full report**.
9. **Real-World Usage**
    - QR codes are widely used in **software systems, documentation, and verification systems**.
10. **Time Saving and Efficient**
    - Saves time during checking and evaluation.