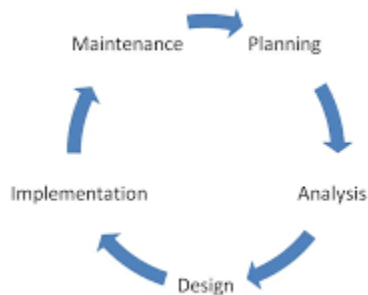


**Assignment1:** Create a one-page infographic that outlines the SDLC phases (Requirements, Design, Implementation, Testing, Deployment), highlighting the importance of each phase and how they interconnect.



## 1. Requirements Gathering

- This phase lays the foundation for the entire project. Here, you define the software's purpose, features, and functionalities by gathering input from stakeholders, users, and business needs. A clear understanding of requirements prevents costly rework later.

## 2. Design:

- In this phase, the requirements are translated into a technical blueprint. System architecture, user interface (UI) mockups, and data structures are created, ensuring all elements work together seamlessly.

## 3. Implementation

- This is where the magic happens! Developers write code based on the designs, bringing the software to life. Clean, well-documented code is essential for maintainability and future updates.

## 4. Testing:

- Testing ensures the software functions as intended and meets user requirements. Through various testing methods, bugs are identified and fixed before deployment.

## **5. Deployment:**

- The final product is released to users. This phase may involve a staged rollout or a direct launch, depending on the project.