**Assignment 1: SDLC Overview - 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.**

**SDLC (Software Development Life Cycle)**

**1. \*\*Planning\*\*: This is where you figure out what the software needs to do, who will use it, and what resources you'll need.**

**2. \*\*Analysis\*\*: You study the requirements in detail, understanding what exactly the software needs to accomplish.**

**3. \*\*Design\*\*: Here, you create a blueprint of how the software will be structured and how it will function.**

**4. \*\*Implementation\*\*: This is where the actual coding happens. Developers write the code based on the design specifications.**

**5. \*\*Testing\*\*: Once the code is written, it's tested thoroughly to make sure it works as intended and to catch any bugs or errors.**

**6. \*\*Deployment\*\*: The software is released to users after passing testing. It's installed on their systems or made available online.**