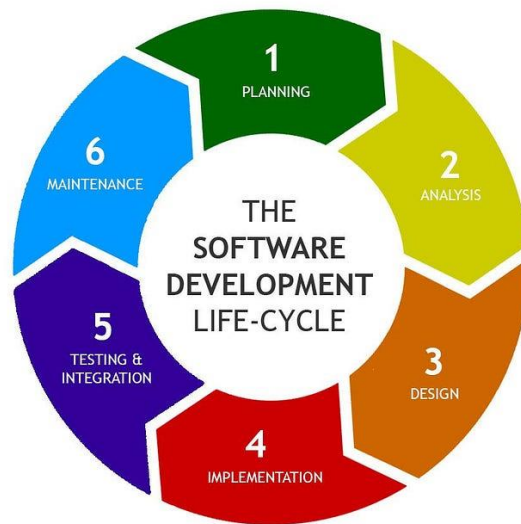


Assignment

SOFTWARE DEVELOPMENT CYCLE (SDLC)



The Software Development Life Cycle (SDLC) is a structured framework for building and maintaining software.

1. Planning:

- This initial phase sets the foundation for the project.

2. Analysis

- This phase focuses on understanding the user's needs and requirements in detail.

3. Design:

- Designers create the system's blueprint, including user interfaces, databases, and system components.
- Design documents are developed to guide the implementation phase.

4. Implementation:

- The implementation phase involves writing the code according to the design specifications.

- Developers use programming languages and software development tools to build the software.

5. Testing:

- Testers identify and fix bugs, ensuring the software functions correctly.
- Testing can be done at different levels, including unit testing, integration testing, and system testing.

6. Maintenance:

- Maintenance activities include bug fixes, performance enhancements, and feature additions.