**SDLC (SOFTWARE DEVELOPMENT LIFE CYCLE):**

SDLC has 7 phases in it they are:

* Requirement Gathering
* Analysis
* System design
* Implementing/coding
* Testing
* Deployment

**Importance of following SDLC:**

* it allows us to maintain a systematic and organized development process.
* helps us identify and mitigate potential risks early on.
* enables us to allocate resources efficiently and manage projects effectively.
* it ensures proper planning and requirement gathering to establish clear project goals.
* better time and cost management results from effective resource allocation and project scheduling.
* it promotes rigorous testing and quality assurance, resulting in reliable and robust software systems.

**STLC (SYSTEM TESTING LIFE CYCLE):**

* **The Software Testing Life Cycle (STLC) is the step-by-step process used to test software and ensure it works well.**

STLC also different phases they are:

* Requirement Analysis
* Test Plaining
* Test design
* Environment Setup
* Test Execution
* Test Closure

**Importance of following STLC:**

* it provides us with a clear plan and organized process for testing, ensuring that everything is done correctly.
* It also helps us in planning and using our resources effectively.
* following a structured STLC approach helps us find and fix problems in the software early on.