SDLC

SDLC - Software Development Life Cycle

What is Software Development Life Cycle(SDLC)?

- This SDLC specifies the task to be performed at various stages by a software engineer or developer

- It ensures that the end product is able to meet the customer's expectations and fits within the overall budget for that a software developer to have prior knowledge of this software development process

- This process of development life cycle involves six phases/stages

Six Stages in SDLC :

1. Requirement gathering
2. Analysis and design
3. Implementation
4. Testing
5. Deployment
6. Maintainance

Different types of SDLC models :

- **Waterfall model**
- **Agile model**
- **Iterative model**
- **Spiral model**
- **V- Shaped model**
- **Big bang model**

what is the need of SDLC :

- SDLC is a method, approach, or process that is followed by a software development organization while developing any software.

- These SDLC models are introduced to follow a systematic approach while designing software.

- By this models, we can divide the software design into small parts, which makes the problem more understandable and easier to solve.

- This gives the step-by-step plan for designing, developing,testing, and maintaining the software