

Welcome to

**Computer
Tutorial Hub**

Computer 1st Year

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Chapter

01

Lecture #

01

Today Topic

- **Introduction to Software Development**
- **What is Software**
- **Introduction to Software Development Life Cycle(SDLC)**

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Introduction to Software Development

- Software Development Life Cycle (SDLC) is a framework that defines the processes used by organizations to build an application from its initial conception to its **deployment and maintenance**.
- The primary purpose of SDLC is to **deliver high-quality** software that meets customer expectations, reaches completion within **time and cost** estimates, and works efficiently.

What is Software?

- Software is a set of instruction or programs that tells a computer **what to do.**
- It helps do tasks like writing , playing games, or browsing the internet.

Examples of Software

➤ **MS Word**

Used for typing documents

➤ **Google Chrome**

Used to browse Website

Introduction to Software Development Life Cycle(SDLC)

- The Software development life cycle is a framework that **guides organization** in creating software applications.
- It covers the entire process, from the **idea and design** to the deployment and maintenance of the software.

Advantage of Software Development Life Cycle

- The SDLC is a step by step method for building software that ensures the final product **meets quality standards** and works well.
- It guides software developers and engineers in **designing , developing, and testing** the software.

Main Goal Software Development Life Cycle

The main goal of SDLC is to deliver high quality software that:

- Meets customer expectations,
- Is completed within the time and cost limits,
- Works efficiently

Stages/ Phases Software Development Life Cycle

- 1. Requirement Gathering**
- 2. System design**
- 3. Development(Coding)**
- 4. Testing**
- 5. Deployment**
- 6. maintenance**

Stages/ Phases Software Development Life Cycle

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Requirement Gathering

- In this initial phase, the goal is to **understand and collect** what the software needs to achieve.
- This involves **talking to the people** who will use the software, as well as other stakeholders, to find out their needs and expectations.

System Design

- It is the step where we make a **plan** for how the software will work.
- Design includes **diagrams and models** to show structure and flow.

Development(Coding)

- In this step, programmers write the **code using programming languages.**
- It **turns the design** into a working software

Testing

- Testing checks if the software works **correctly or not**.
- It helps find and fix **errors or bugs** in the software.

Deployment

- Deployment means **installing the software** for the users.
- It **is shared or launched** for people to use.

Maintenance

- Maintenance means **fixing problems after the software** is used.
- It includes **updates, bug fixes, and adding** new features.

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