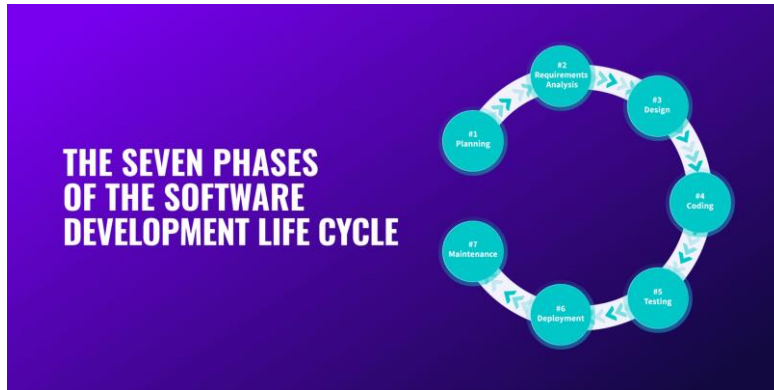


## **Software Development Life Cycle: (SDLC)**

High level representation of S/W development process or set of steps/phases to produce software.

### **The Seven Phases of the Software Development Life Cycle**



Phase 1: Planning.

Phase 2: Requirements Analysis.

Phase 3: Design.

Phase 4: Coding.

Phase 5: Testing.

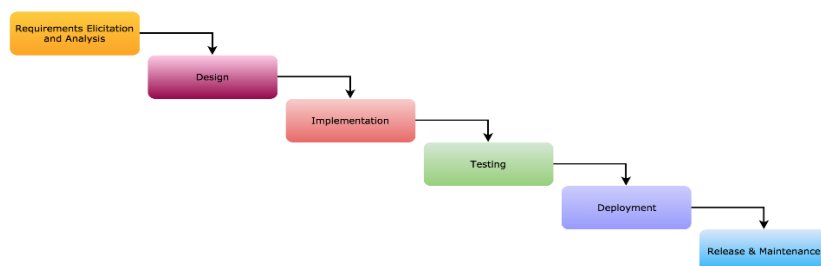
Phase 6: Deployment.

Phase 7: Maintenance.

## **SDLC Models:**

- 1) Sequential ( Waterfall , V-Model )
- 2) Iterative ( Spiral , Prototyping )
- 3) Incremental ( Unified Process )
- 4) Iterative & Incremental ( Agile )

### **1) Waterfull**



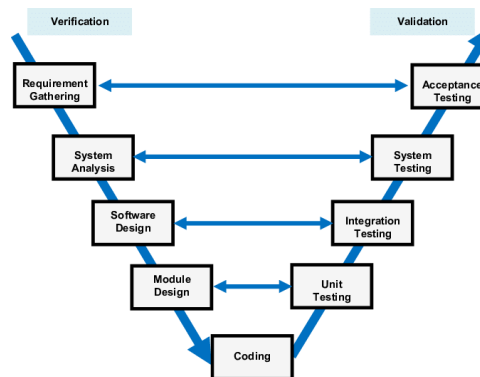
### **Advantages**

- 1) Well-Suited for Small Projects
- 2) Well-documented

### **Disadvantages**

- 1) Late Testing
- 2) Limited Customer Involvement
- 3) Inflexibility

## 2) V-Model



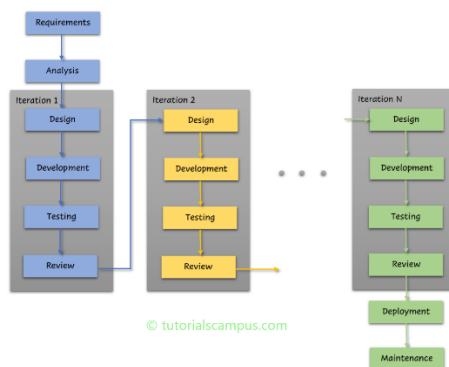
### Advantages

- 1) Early Testing
- 2) Save time & money

### Disadvantages

- 1) Inflexibility (cannot changes in requirements)
- 2) Limited Customer Involvement
- 3) Not Suitable for Complex Projects

## Iterative-Model

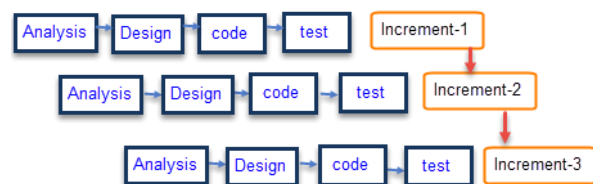


Flexibility to Change

Iteration take low time

Customer Involvement

## Incremental Models



### Incremental Model

Flexibility to Change

Easier Testing and Debugging

Early Delivery (Parts of the system can be released)

Complex Integration

## Iterative & Incremental Models

( Agile )      Bad-Documentation only

