

Ans. System Development Life Cycle (SDLC) is a procedure to develop a software according to the trends, need and which match or exceeds the customer's expectation within an inexpensive range and cost effective maintenance.

There are Six Phases of SDLC.

- 1) Requirement Analysis / Requirement Gathering
- 2) Defining Requirement
- 3) Design
- 4) Building / Development
- 5) Testing
- 6) Deployment / Maintenance

There are three main types of Model in SDLC.

1) Waterfall Model : This model is a sequential model that divides software development into pre-defined phases. Each phase must be completed before the next phase can begin with no overlap between the phases. Each phase is designed for performing specific activity during the SDLC phase.

2) Evolutionary Model / Incremental Model : The Evolutionary development model divides the development life cycle into smaller, incremental waterfall models in which users are able to get access to the product at the end of each cycle.

3) Spiral Model :- Spiral model is a combination of waterfall and iterative model. Each phase in spiral model begins with a design goal and ends with the client reviewing the progress.