**Software Development Life Cycle**

* SDLC is a process that consists of a series of planned activities to develop or alter the Software Products.
* Why SDLC:

1. Process used by software industry to design, develop and test high quality software.
2. Aims to provide high quality software that meets or exceeds customer expectations, reaches completion with times and cost estimates.
3. Consists of a detailed plan describing how to develop, maintain, replace and alter or enhance specific software.
4. Basically it defines a methodology for improving the quality of software and overall development process.

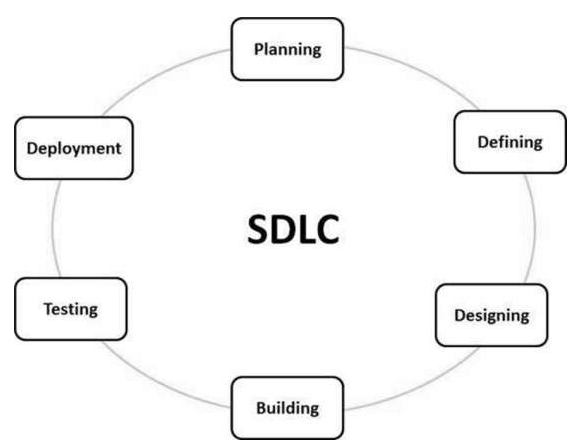
* SDLC Models:

Following are the most important and popular SDLC models followed in the industry –

1. Waterfall Model
2. Iterative Model
3. Spiral Model
4. V-Model
5. Big Bang Model

Other related methodologies are Agile Model, RAD Model, Rapid Application Development and Prototyping Models.

* SDLC graphical representation:



1. Stage 1 : Planning and Requirement Analysis

This is performed by the senior members of the team with inputs from the customer, the sales department, market surveys and domain experts in the industry. This is then used to plan the basic approach and to conduct project feasibility study in the economical, operational and technical areas.

Planning for the QA requirements and the identification of the risks associated with the project are also done in planning stage.

1. Defining requirements;

Once planning is done, next step is to clearly define and document the product requirements and get them approved from the customer or market analysts. This is done through **SRS(Software Requirement Specification)** which consists of all the product requirements to be designed and developed during the life cycle.