

What is Software Design Process ?

Software design process is a process to user requirements after analysis in suitable form so that a programmer can write coding or implements it.

Software design process is an important stage in SDLC (Software development life cycle ) model.

Each SDLC model is having a software design process.

Some of the SDLC models where software design process exist :

- 1) Waterfall model
- 2) Prototype model
- 3) Spiral model, etc

What are Software Design Concepts ?

- 1) Abstraction :
- 2) Refinements :
- 3) Modularity :
- 4) Control Hierarchy :
- 5) Software Architecture :

6) Data Structure :

7) Structural Partitioning :

8) Software Procedure :

9) Information Hiding :

What are Software Design Principles ?

According to Grady Booch, software design principles are PHAME (Principle of Hierarchy, Abstraction, Modularization, Encapsulation).

1) Hierarchy :

2) Abstraction :

3) Modularization :

4) Encapsulation :

What is Software Modeling ?

In Software engineering Software Modeling is an artificial language which is used to represent a system or component of a system in structure language form. The structure is a consistent set of rules.

A software modelling language can be graphical or textual based on the developer requirements.

Some examples of software modelling language are :

- 1) UML : Unified Modelling Language, is general modelling language used to describe a software both structurally and behaviourally. It uses graphics and text notations.
- 2) SysML : System Modelling Language, is a general purpose language for system engineering.
- 3) Flow Chart : It is a schematic representation of step by step procedure or an algorithm.
- 4) BPMN : Business Process Modelling Notation, is used for process modelling.