

ASSIGNMENT

Module-1) software

1) What Is Software ? Explain Types Of Software.

- In a computer system, the software is basically a set of instructions or commands that tell a computer what to do.
- In other words, the software is a computer program that provides a set of instructions to execute a user's commands and tell the computer what to do.
- Types Of Software :
 - 1) System Software
 - Operating System
 - Language Processor
 - Device Driver
 - 2) Application Software
 - General Purpose Software
 - Customize Software
 - Utility Software

2) Explain the SDLC each phase process.

- Software development life cycle (SDLC) is a structured process that is used to design, develop, and test good-quality software.
- SDLC, or software development life cycle, is a methodology that defines the entire procedure of software development step-by-step.
- Stages Of SDLC :
 - 1) Planning
 - 2) Defining
 - 3) Designing
 - 4) Building
 - 5) Testing
 - 6) Deployment

1. Planning

- Planning is a crucial step in everything, just as in software development.
- In this same stage, requirement analysis is also performed by the developers of the organization.

2. Defining

- In this stage, all the requirements for the target software are specified.

- These requirements get approval from customers, market analysts, and stakeholders.
- This is fulfilled by utilizing SRS (Software Requirement Specification).

3. Designing

- SRS is a reference for software designers to come up with the best architecture for the software.
- Hence, with the requirements defined in SRS, multiple designs for the product architecture are present in the Design Document Specification (DDS).

4. Building

- At this stage, the fundamental development of the product starts.
- For this, developers use a specific programming code as per the design in the DDS.

5. Testing

- After the development of the product, testing of the software is necessary to ensure its smooth execution.
- Although, minimal testing is conducted at every stage of SDLC.

6. Deployment

- After detailed testing, the conclusive product is released in phases as per the organization's strategy.
- Then it is tested in a real industrial environment.
- It is important to ensure its smooth performance.