

# Backend assignment

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# Software Engineering Assignment

## MODULE: 1 (SDLC)

### 1. What is software? What is software engineering?

Ans. **Software**: software is used to control a computer. there are different types of software that can run on computer.

- Types of Software : I. System software  
II. Utility software  
III. Application software

**Software Engineering**: A software engineering develops or designs new application with the software needs of end. user in mind. Software engineering may also involve The process of Analyzing existing software , and modifying it to much Current application need.

### 2. Explain types of software ?

Ans. A three types of software.

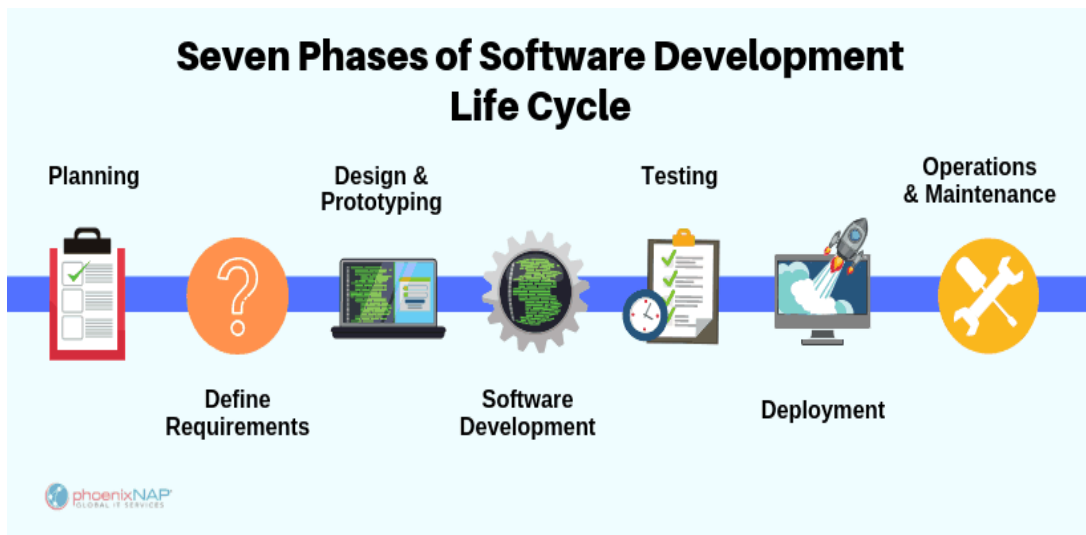
I. **System software** : System software is a type of computer program that is Designed to run a computer's hardware and application Programs. If we think of the computer system as a layered Model , the system software is the interface between the Hardware and application. The operating system is the best. Know example of system software.

II. **Utility Software** : Utility software is software designed to help analysis, Configure , optimize or maintain a computer . it is used to Support the computer infrastructure. In contrast to Application software. Which performing tasks. that Benefits ordinary users.

III. Application software : when a user interface. Directly with a piece of Software. It is called application software. The Sole purpose of application software is to assist The user in doing specified tasks. Microsoft word and excel , as well as popular Web browser like Firefox and google chrome, Are example of application software.

### 3. What is SDLC ? Explain each phase of SDLC.

Ans: SDLC : The software development life cycle (SDLC) is a structure Process. That enable the production of high-quality, low-cost Software. In the shortest possible production time. The goal Of the SDLC is of produce superior software that meets and Exceeds all customer experience and demand.



- **PLANNING :-**

The Planning stage (also called the feasibility stage) exactly what is sound like the phase in which developers will plans for upcoming projects.

- **DEFINE REQUIREMENT :-**

The purpose of the requirement analysis phase is to transform the needs and high-level requirement specified in earlier phase into Unambiguous (measurable and testable ).traceable, complete, consistent , and stakeholder approved requirement.

- **DESIGN & PROTOTYPING :-**

The software prototyping refer to building software application Prototypes which display the functionality of the product under Development, but may not actually hold the exact logic of the Original software.

- **SOFTWARE DEVELOPMENT :-**

The development stage is the part where developers actually write code build the application according to the earlier design document and outline specifications.

- **TESTING :-**

....Build the software is not the end....

The testing phase of the software development lifecycle is where You focus on investigation and discovery. during the testing phase Development find out whether. Their code and programming work According . to customer requirements.

- **DEPLOYMENT :-**

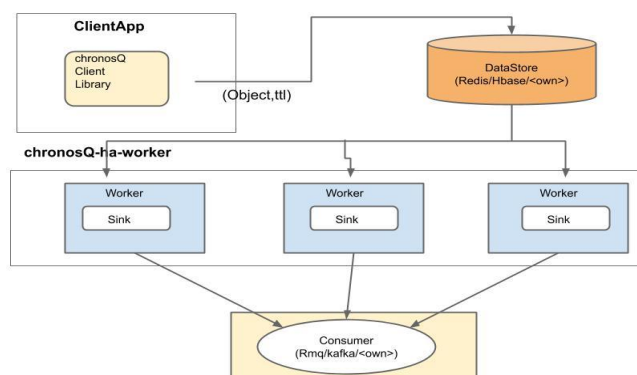
The deployment phase is the final phase of the software development life cycle and puts the product into production. After the project team tests the product and the product passes Each testing phase. The product is ready to go live and use.

- **OPERATON & MAINTENANCE :-**

operation & maintenance involves planning for and executing, activities, such as operating the system , monitoring system performance , making repairs, hiring and training operators , testing the system after any change are made, and tuning the system. All system required regular maintenance

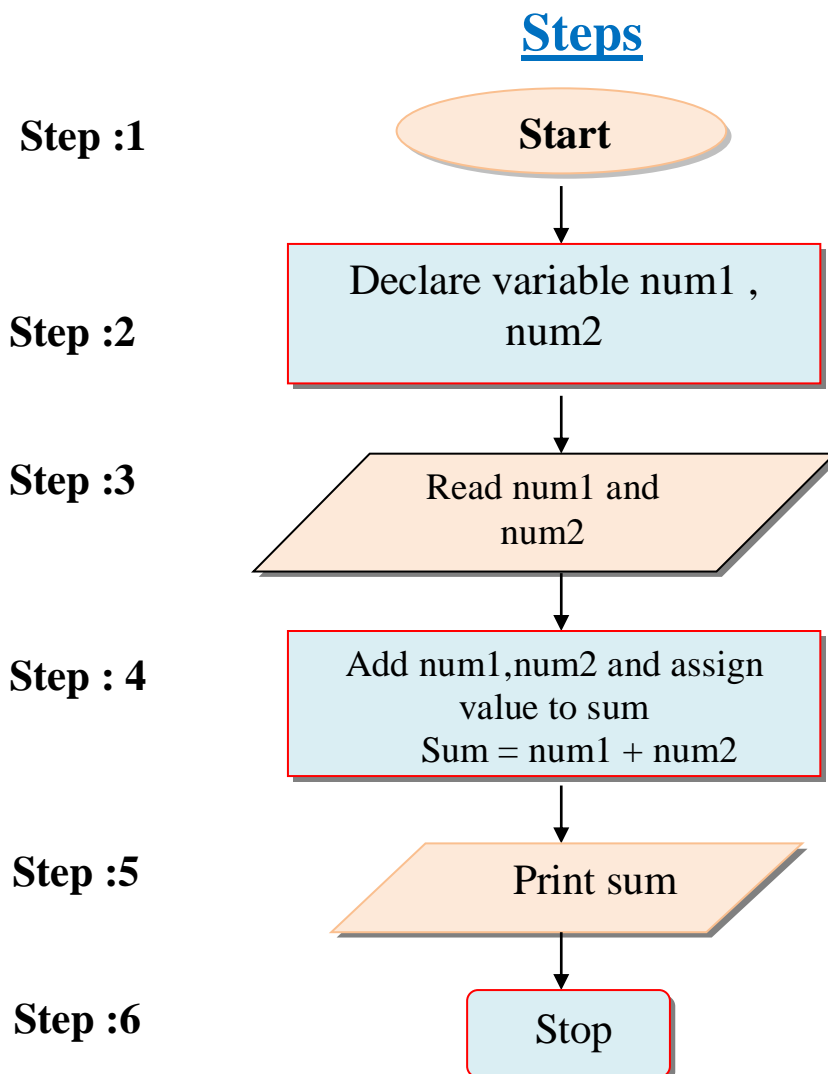
#### 4. What is DFD ? Create a DFD diagram on flipkart.

**Ans :** A data flow diagram (DFD) is a graphical or visual representation Using a standardized set of symbol and notation to describe a Business's operations though data movement they are often element Of a formal methodology such as structured system analysis and Design method (SSADM).



## 5. What is flow chart? Create a flowchart to make addition of two numbers.

**Ans.** A flow chart is a picture of the separate steps of process in sequential Order. It is a generic tool that can be adapted for a wide variety of Purpose, and can be used to describe various process, such as a Manufacturing process, an administrative or service process or a project plan.



## 6. What is use-case diagram ? gate a use-case on bill payment on pay tm.

**Ans :** use-case diagram describe the high-level function and scope of a System. These diagram also identify the interactions Between the system and its actors. The use case and Actors in use-case diagram describe what the system Does and how the actors use it, but not how the system Operator internally.

### USE-CASE DIAGRAM

