MODULE: 1

SE – Overview of IT Industry

1. What is software? What is software engineering?

Software is considered to be collection of executable programming code, associated libraries and documentations. Software, when made for a specific requirement is called software product. Engineering on the other hand, is all about developing products, using well-defined, scientific principles and methods.

1. Explain types of software.

**The five categories of software are**

1. Application Software
2. System Software
3. Driver Softwar
4. Middleware
5. Programming Software
6. What is SDLC? Explain each phase of SDLC.

The Software Development Life Cycle (SDLC) refers to a methodology with clearly defined processes for creating high-quality software.

1. Requirement Gathering

2. Analysis

3. Designing

4. Implementatio

5. Testing

6. Maintenance

1. What is DFD? Create a DFD diagram on Flipkart.

A data flow diagram (DFD) is a graphical or visual representation using a standardized set of symbols and notations to describe a business's operations through data movement.

Product details

Validate information Seller

Sales Details

Admin Flipkart

Order Details

Monitored transition Customer

Delivery Details

1. What is Flow chart? Create a flowchart to make addition of two numbers.

A flowchart is a picture of the separate steps of a process in sequential order. It is a generic tool that can be adapted for a wide variety of purposes, and can be used to describe various processes, such as a manufacturing process, an administrative or service process, or a project plan.

Start

Declare num1, num2 and Sum

Read num1 and num2

Add num1, num2 and assign value to sum

Sum = num1 + num2

Print sum

Stop

1. What is Use case Diagram? Create a use-case on bill payment on paytm .

Use-case diagrams describe the high-level functions and scope of a system. These diagrams also identify the interactions between the system and its actors. The use cases and actors in use-case diagrams describe what the system does and how the actors use it, but not how the system operates internally.

Buy stock <<include>> Make payment

Manger Supplier

Generate sales report Supply stock

Receive paytm

Inventry system Update inventry

Select items Cashier

<<include>> <<include>>

Paymt Scan items

By cash By credit By debit