**Module:1**

* What is SDLC :
* **SDLC is software devlopment life cycle,SDLC is structure or process or seris or steps to devlop a quality software.**
* What is software testing?
* **Software testing is proccess used to identify the correctness, compeleteness and quality devloped computer software.**
* What is agile methodology?
* **Agile is an sdlc model based on ittrative and incremental proccess.**
* What is SRS
* **A software require specification is a compelet description of the behaiviour of the system to be devloped**
* **OR. Use case are also known as functional requirement and srs is non funtional requirement.**
* What is oops
* **It focus on data or the object rather than proccess.**
* Write Basic Concepts of oops
* **Object**
* **Class**
* **Encapsulation**
* **Inharitance**
* **Abstration**
* **Pollymorphisam: type of pollymorphisam:1over loading 2 over riding**
* What is object
* **That is both data and function that oprate on data are bundled as a called unit as object.**
* What is class
* **Class is a blue print of an object.**
* What is encapsulation
* **Wrraping up of data into a single unit or class**
* What is inheritance
* **Ability to adapt the behaviour of parent.**
* What is polymorphism
* **Pollymorphism is ability to react in diffrant way.**
* Draw Usecase on Online book shopping
* Draw Usecase on online bill payment system (paytm)
* Write SDLC phases with basic introduction
* **Requirement/Gathering: Established customer needs**
* **Analysis:model and specify the requirements**
* **Design:model and specify solution**
* **Implementation/ devlopment: construct a solution in soffware**
* **Testing: validate the solution against rrquirement**
* **Maintence:repair defects and adapt the solution to new requirements.**
* Explain Phases of the waterfall model
* **Requirements are very well documented, clear and fixed.**
* **Product definition is stable.**
* **Technology is understood and is not dynamic.**
* **There are no ambiguous requirements.**
* **Ample resources with required expertise are available to support the product.**
* **The project is short.**
* Write phases of spiral model
* **Planning**
* **Risk analysis**
* **Engineering**
* **Customer evaltuion**
* Write agile manifesto principles
* **1 individuals & interaction**
* **2working software**
* **3 customer colobration**
* 4 responding to change
* Explain working methodology of agile model and also write pros and cons.
* **Agile SDLC model is a combination of iterative and incremental Process models with focus on process adaptability and customer Satisfaction by rapid delivery of working software product**
* **Prons**
* **1. Promotes teamwork and cross training.**
* **2. Resource requirements are minimum**
* **3. Suitable for fixed or changing requirements**
* **4. Minimal rules**
* **5. Easy to manage**
* **Cons**
* **1. Not suitable for handling complex dependencies**
* **2. Transfer of technology to new team members may be quite challenging Due to lack of documentation**
* **3. More risk of sustainability, maintainability and extensibility.**
* Draw usecase on Online shopping product using COD.
* Draw usecase on Online shopping product using payment gateway.
* 1-

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2-https://drive.google.com/file/d/1HRSI9YQ3QG2xRsZXJUDdHf0lQ3JT3Sb6/view?usp=drivesdk

3-https://drive.google.com/file/d/1NODOxXC5I4QlhKn2iGIU2IHTJo8nhU0O/view?usp=drivesdk

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