1. What is software? what is software engineering?

→ Software is a general term for the various kinds of programms used to operat computers and related devices.

- A systematic approach to designing, developing, testing and maintaining software.

2. Explain types of software.

→

Types of Software

System Software		Application Software.

operating system E.g. linux, windows etc.	Language processor and Device driver e.g. Interpreter, compiler etc.	Cnemercial purpose e.g. ms-word, photoshop etc.	customised software e.g. railways reservation system etc.

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

→ SDLC stands for " Software Development
life cycle."

It describes the sequence of phases or
steps to develop ...

| 1 planning |
| 2. Analysis |
| 3. Design. |
| 4. Implemen-tation |
| 5. Testing |
| 6. maintenance |

1. planning :

obtain approval for project, initiate,
Assess feasibility, plan, schedule.

2 Analysis : understand business needs and
processing needs.

3. Design :

Define solution system based on requirements and any analysis decision.

4. Implementation :

construct, test, train users, install new system.

5. Testing

When the coding is complete, testing begins, and the modules are released for evaluation as software testing is necessary to avoid any bugs.
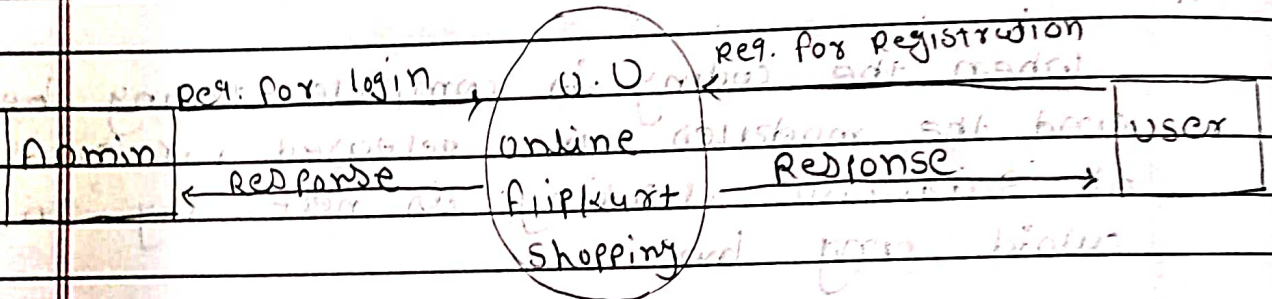
6. maintenance.

keep system healthy and improve

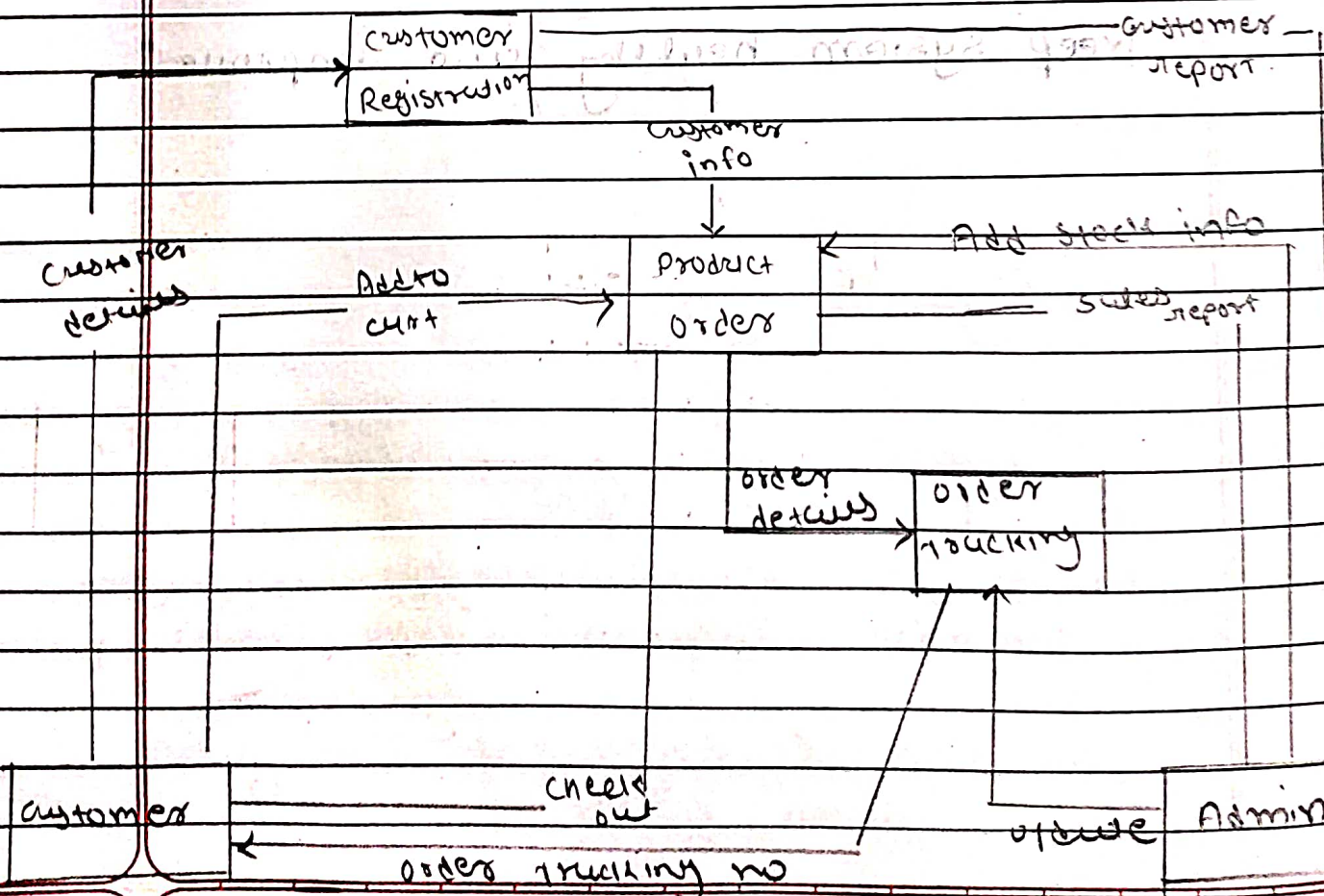* What is DFD? create a DFD diagram on Flipkart?

→ A Data Flow Diagram (DFD) is a visual representation of how information flows through a system or process.

It uses symbols like arrows →, and circles ○ to show data input/output storage points & routes b/n destination

0 level.

Admin — req. for login → [online flipkart shopping] — req. for Registration → User
Admin ← Response — [online flipkart shopping] ← Response → User

1 level.

Customer Registration — Customer info — Product Order — Add to cart — Customer details — Customer Report — Add stock info — Sales report — order details — order tracking — check out — update — order tracking no — Customer — Admin
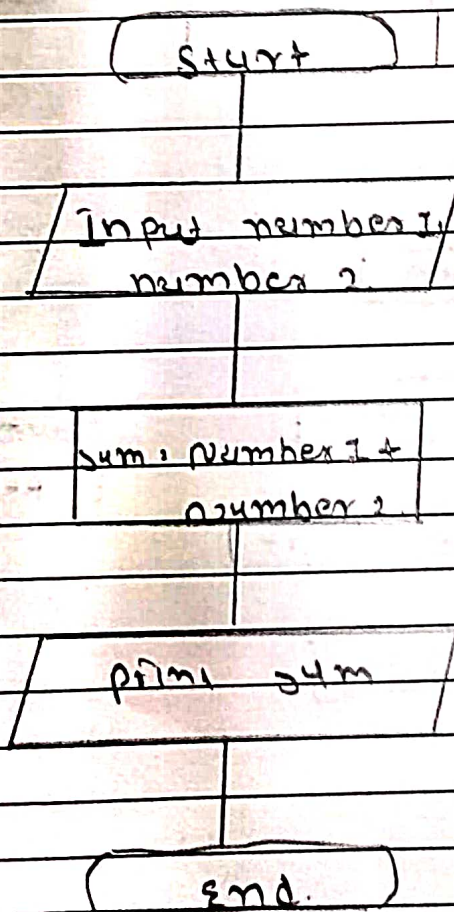
5. What is Flow chart? create a Flowchart to make addition of two numbers.

→ A Flowchart is a diagram that illustrates the steps, sequences, and decisions of a process or workflow.

→ There are many different types of Flow chart.
1. Process Flowchart
2. Decision Flowchart
3. Workflow Flowchart
4. Swimlan Flowchart
5. usecase Flowchart.

- create a Flowchart to make addition of two num

```
         ┌──────────────┐
         │    Start     │
         └──────────────┘
                │
          ╱─────────────╱
         ╱ Input number 1╱
        ╱  number 2     ╱
         ─────────────
                │
         ┌──────────────┐
         │ sum = number 1 +│
         │   number 2   │
         └──────────────┘
                │
          ╱─────────────╱
         ╱ print  sum  ╱
          ─────────────
                │
         ┌──────────────┐
         │    End.      │
         └──────────────┘
```

6. What is Use case diagram? create a use-case on bill payment on paytm.

→ A use case diagram is a visual representation of how users Interact with a system.

→ It is also known as UML (unified modeling language.

Bill payment on paytm

Visitor — visit, registration
Verification, Updation, Report — Admin

Registered user — login, Recharge, view report, logout
Transaction Report — Service provider