What is Agile?
Agile is a Project Management and software development approach that aims to be more effective.
- It focuses on delivering smaller pieces of work regularly instead of one big launch.
- This allows teams to adapt to changes quickly and provide customer value faster.

What is the Agile Methodology?
Agile Methodology is a way to manage projects by breaking them into smaller parts. It focuses on working together and making constant improvements. Teams plan, work on the project, and then review how things are going in a repeating cycle.
- They prioritize flexibility, collaboration, and customer satisfaction.
- Major companies like Facebook, Google, and Amazon use Agile because of its adaptability and customer-focused approach.

Life cycle of Agile Methodology
The Agile Software Development Life Cycle helps you break down each project you take on into six simple stages:

1. Requirement Gathering
- In this stage, the project team identifies and documents the needs and expectations of various stakeholders, including clients, users, and subject matter experts.
- It involves defining the Project's Scope, objectives, and requirements. Establishing a budget and schedule.
- Creating a project plan and allocating resources.

2. Design
- Developing a high-level system architecture.
- Creating detailed specifications, which include data structures, algorithms, and interfaces.
- Planning for the software's user interface.

3. Development (Coding)
- Writing the actual code for the software.
- Conducting unit testing to verify the functionality of individual components.

4. Testing
This phase involves several types of testing:
- Integration Testing: Ensuring that different components work together.
- System Testing: Testing the entire system as a whole.
- User Acceptance Testing: Confirming that the software meets user requirements.
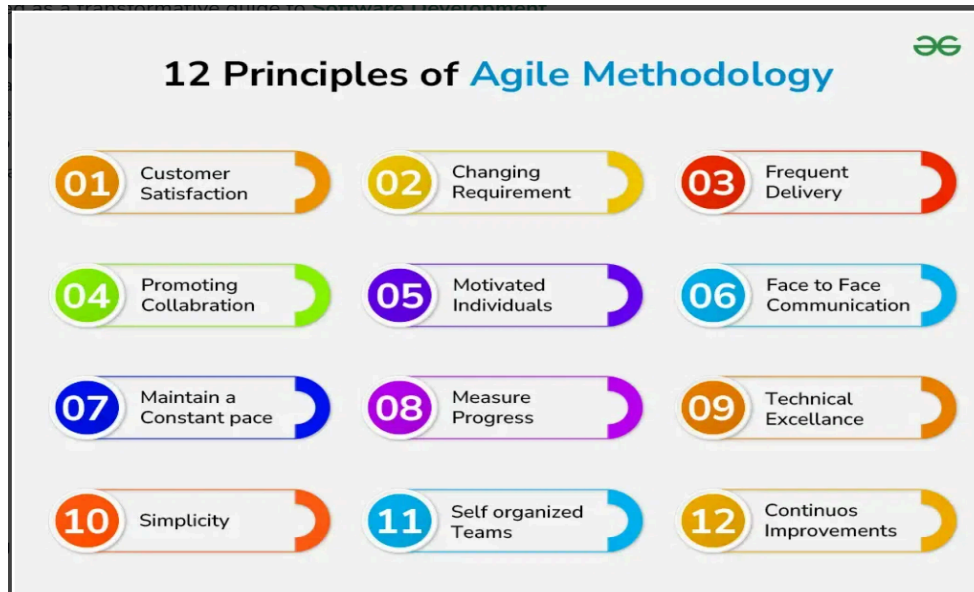- Performance Testing: Assessing the system's speed, scalability, and stability.

5. Deployment
- Deploying the software to a production environment.
- Put the software into the real world where people can use it.

- Make sure it works smoothly in the real world.
- Providing training and support for end-users.

6. Review (Maintenance)
- Addressing and resolving any issues that may arise after deployment.
- Releasing updates and patches to enhance the software and address problems.

Popular Agile Tools for Software Development
Agile Tool for software development or platforms that help teams manage and track their Agile projects more effectively. These tools streamline collaboration, enhance productivity, and ensure that projects stay on track.
Some popular Agile tools include:

1. Jira
2. Trello
3. Asana
4. Pivotal Labs
5. ClickUp
6. Monday.com
7. CollabNet
8. Axosoft
9. Zoho Sprints
10. Active Collab