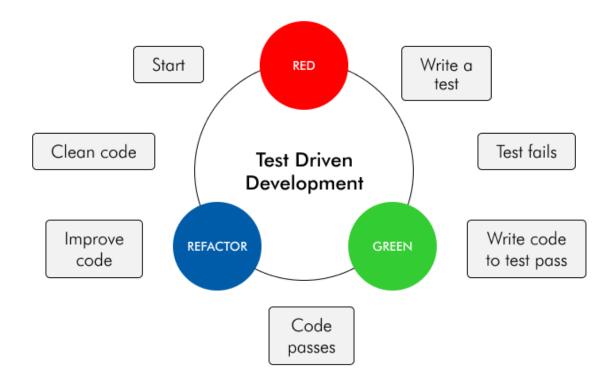
**Assignment 2:** Produce a comparative infographic of TDD, BDD, and FDD methodologies. Illustrate their unique approaches, benefits, and suitability for different software development contexts. Use visuals to enhance understanding.

### **Test-Driven Development (TDD):**



### Approach:

- Write tests before writing code.
- Tests drive the development process.

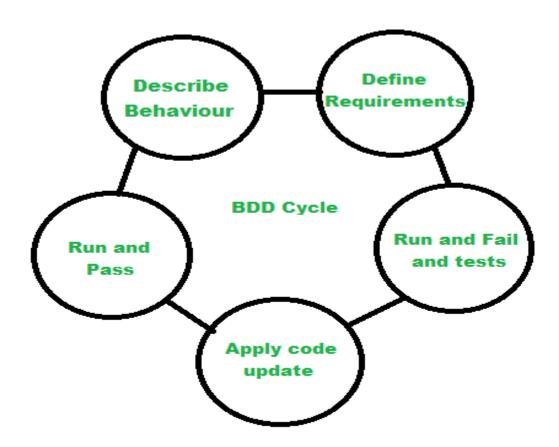
#### **Benefits:**

- Early bug detection.
- Improved code quality.
- Faster development cycles.

#### **Suitability:**

- Ideal for projects with well-defined requirements.
- Suitable for small to medium-sized teams.

## **Behaviour-Driven Development (BDD):**



## Approach:

- Focuses on behaviour and interactions.
- Uses natural language specifications.

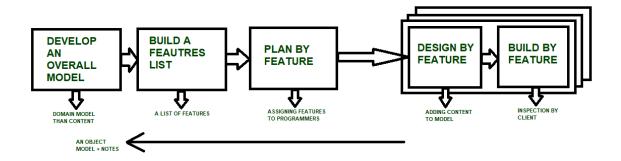
#### **Benefits:**

- Clear communication between stakeholders.
- Encourages collaboration between development and non-technical teams.
- Emphasizes user-centric design.

# **Suitability:**

- Well-suited for projects with changing or evolving requirements.
- Useful for large teams or projects involving multiple stakeholders.

## Feature-Driven Development (FDD):



### Approach:

- Emphasizes iterative development of features.
- Divides development into manageable tasks.

#### **Benefits:**

- Scalable for large projects.
- Emphasizes on delivering tangible, working features.
- Encourages collaboration and communication within the team.

# **Suitability:**

- Best suited for large-scale enterprise projects.
- Works well in environments where requirements are subject to change.

### **Comparison:**

Methodology	TDD	BDD	FDD
Approach	Write test before code.	Focuses on behaviour and interactions.	Emphasizes iterative development of features.
Benefits	Early bug detection, Improved code quality, Faster development cycles.	Clear communication, Collaboration between teams, User-centric design.	Scalable for large projects, Tangible feature delivery, Team collaboration.

Suitability	Well-defined	Changing or	Large-scale enterprise
	requirements, Small	evolving	projects, Changing
	to medium-sized	requirements,	requirements.
	teams.	Large teams or	
		projects with	
		multiple	
		stakeholders.	

➤ Each methodology offers unique approaches and benefits tailored to different software development contexts. Choosing the right methodology depends on project requirements, team size, and stakeholders' involvement.