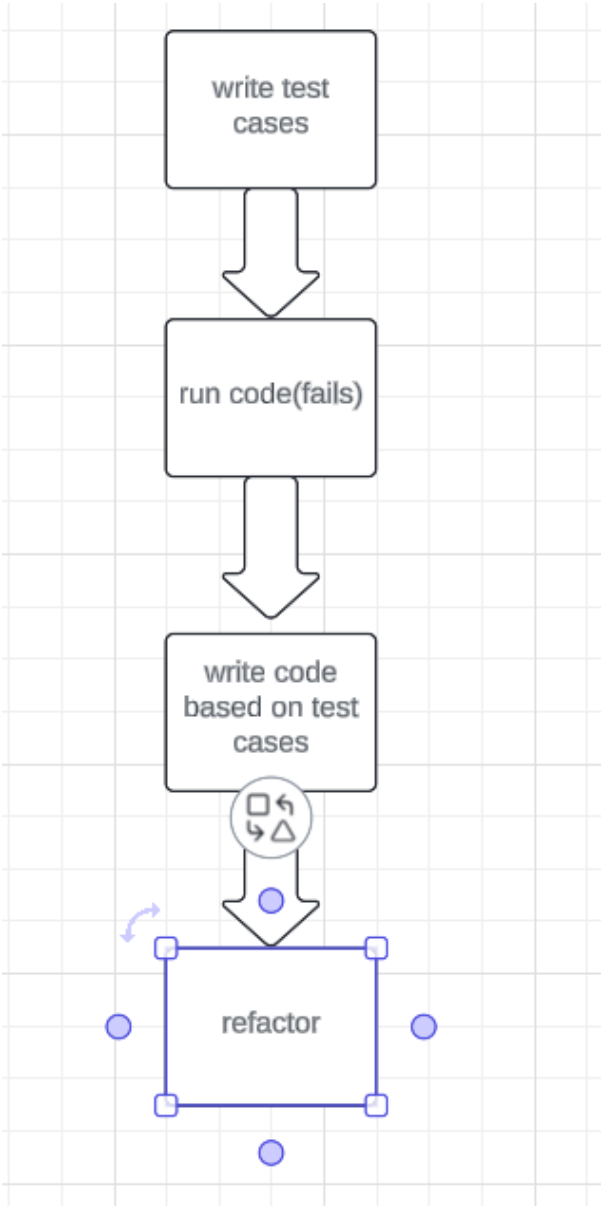
Assignment 1 :- Create an infographic illustrating the Test-Driven Development (TDD) process. Highlight steps like writing tests before code, benefits such as bug reduction, and how it fosters software reliability.



Write test case:- before implementing coding first we write test case .

Run code (fails):- code will fail because we havent implement the code based on the test cases

Write code based on test cases :- writing code based on the test cases and run the code and see whether it is working or not

Refactor :- if we want to change the code to pomote quality,reliability then we can change the code otherwise, we can leave it .

Benefits :-

1.Bug Reduction

2. Improved Software Reliability.

3. Code Maintainability

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.
Benefits:
1.Early bug detection.
2.Improved code quality and maintainability.
Suitability:
1.Ideal for projects with clear and well-defined requirements.
2.Suited for teams that prioritize test coverage and code quality.

Business-Driven Development (BDD):
Approach:
Focuses on the business requirements originated from manufacturing practices.
Benefits:
1.Improved collaboration between developers and stakeholders.
Suitability:
1.Well-suited for projects with complex business logic or involving multiple stakeholders.
2.Ideal for teams aiming for high-level requirements clarity and user-centric development

Feature-Driven Development (FDD):
Approach:

Focuses on the features.

Benefits:

1.Clear focus on feature delivery and progress tracking.

Suitability:

1.Suitable for large-scale projects with multiple teams.

2.Ideal for projects requiring frequent releases and feature updates.