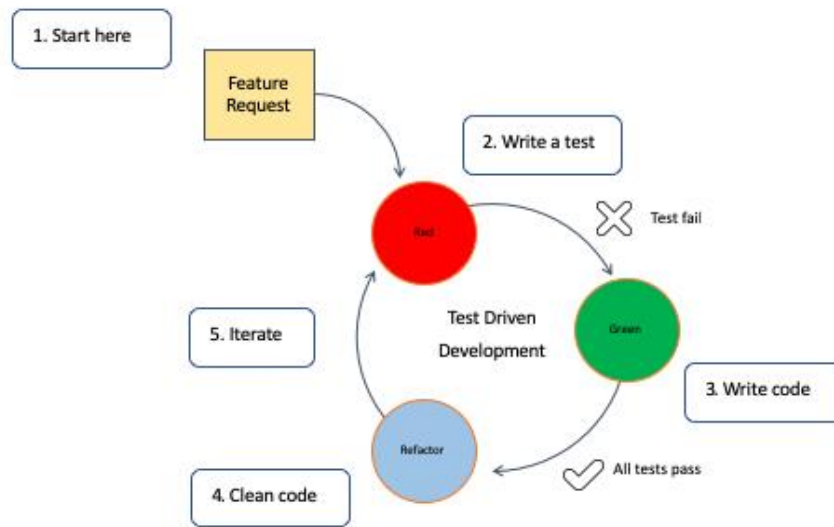


Test - Driven Development Process



1. Write Test:

Step 1: Write a failing test that describes a small unit of desired functionality.

2. Run Test:

Step 2: Run all tests, including the new one. The new test should fail because the functionality isn't implemented yet.

3. Write Code:

Step 3: Write the minimum amount of code needed to pass the test.

4. Run Test Again:

Step 4: Run all tests again. The new test should now pass, along with all existing tests.

5. Refactor Code:

Step 5: Refactor the code for better design, without changing its behaviour.

6. Repeat:

Step 6: Repeat the process for the next unit of functionality.

● Benefits of TDD -

1. Bug Reduction
2. Writing tests before code helps catch bugs early in the development process.

- **Conclusion -**

Test Driven Development is a proven methodology for producing high-quality, reliable software through a structured, iterative process.

- **Visuals -**

Each step visually represented with icons or illustrations.

Examples of failing and passing tests.

Comparison between TDD and traditional development approaches.

- **Colour Scheme -**

Green and red for passing and failing tests respectively.

Blue and gray for the overall design, to keep it clean and professional.