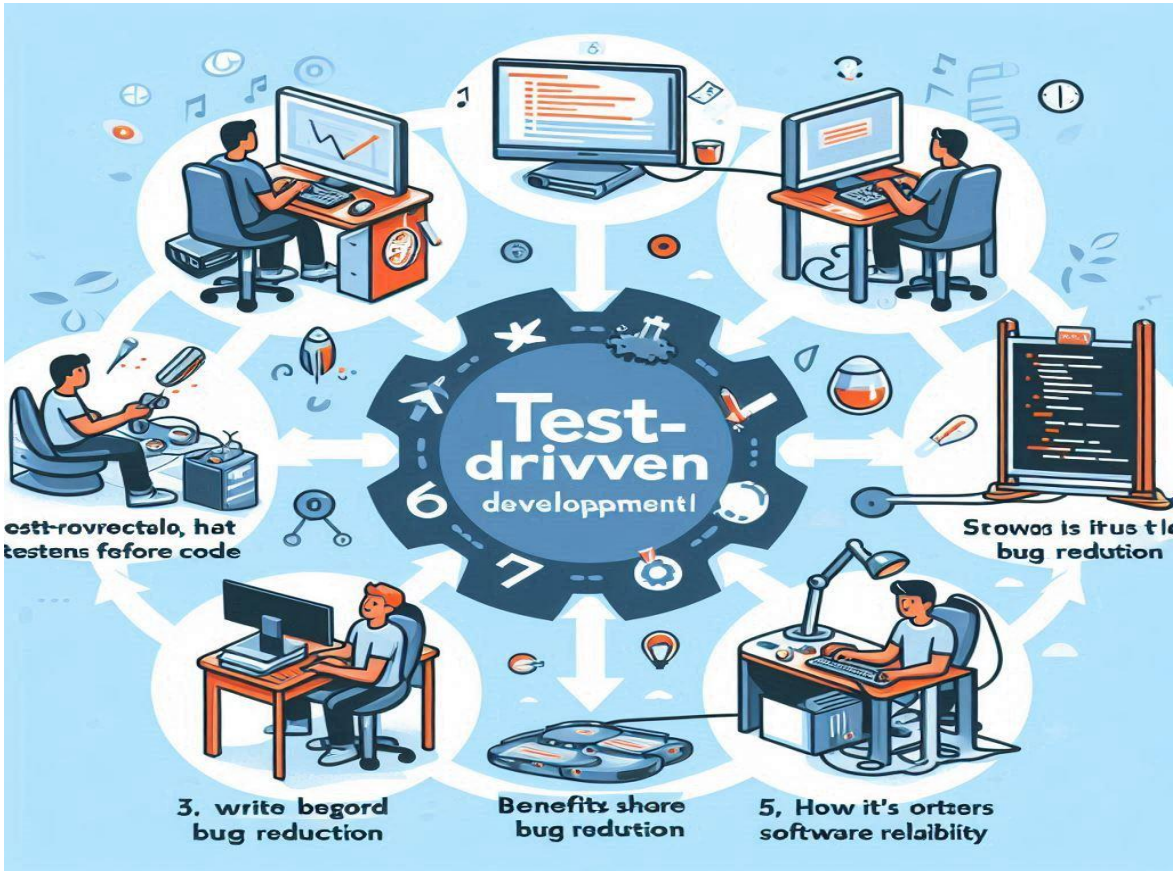
Assignment 1: Create an infographic illustrating the Test-Driven Development (TDD) process. Highlight steps like writing tests before code, benefits such as bug reduction, and how it fosters software reliability.



Test-Driven Development (TDD) process. Here are the key steps and benefits:

1. **Write a Failing Test:**
    - Start by writing a test that describes the desired behavior of a feature or function.
    - This test should fail initially because the feature doesn't exist yet.
2. **Write the Minimum Code to Pass the Test:**

    - Implement the minimum code necessary to make the test pass.
    - Don’t worry about writing perfect or complete code at this stage.
3. **Refactor:**
    - After the test passes, refactor your code to improve its design, readability, and maintainability.
    - TDD encourages continuous refactoring to keep the codebase clean.
4. **Repeat the Cycle:**
    - Write another failing test for the next feature or functionality.
    - Implement the code to pass the test.
    - Refactor as needed.
5. **Benefits of TDD:**
    - **Bug Reduction:** By catching issues early through tests, you reduce the chances of introducing bugs.
    - **Improved Code Quality:** TDD encourages modular, well-structured code.
    - **Software Reliability:** Rigorous testing ensures that your software behaves as expected.