Test driven development is a way to test a software or a system that helps to validate an implemented system or software. For software, tests are used to prove if a specific block of code built to give a specific result is true or false. And for a system, it helps to understand if the purpose of a small part of all systems is well implemented.

If the test fails at a specific point, then we have to come back to redo that part. It is practical to do test driven cause it provides a correct product to the client according to his need.

Writing and fixing failed tests before writing new code is the straightforward TDD principle (before development). Due to the fact that we develop small amounts of code at a time to pass tests, this helps to prevent code duplication. (Tests are nothing more than the conditions of a demand that must be satisfied by testing.)

According to test results, two notable outcomes are a decrease in errors and a rise in the maintainability of software code or distinct system modules.[1]

References

[1]Effects of Test-Driven Development: A Comparative Analysis of Empirical Studies

[1]<https://link.springer.com/chapter/10.1007/978-3-319-03602-1_10>

[2] https://www.guru99.com/test-driven-development.html