TDD Journal

Test-Driven-Development is a technique in software development in which you first create Tests based on what you would expect or that define what you should get back from the execution of a small unit of code. The first test or tests are meant to fail since, at this point, you should not have written any code. This is the “red” phase where you are thinking about what needs to be developed. Once the initial tests fail, you then write just enough code for the test or tests to pass. This is the “green” phase where you are incrementing solutions to make the tests pass. Then there is the “refactor” phase where you improve the solutions you have implemented to make all the unit tests pass. This process informs or drives the design and development of the software and is repeated, and through each iteration, the code is developed and improved. TDD is said to increase the time investment initially but will reduce bugs, maintenance, and minimize issues related to the introduction of new features.