# Test Driven Development

TDD meaning Test-driven development is a application or software design process which is based on repetition of a short development cycle .There are a hand full of steps.

**Add a Test**

In the TDD applications are not designed before the test but rather the test are designed ,this test most inevitably fail ,because the test is written before the application properties or features are implemented, and then more codes are written. ,

### Run all tests and see if the new one fails

This will check that the test harness (test application ) is working according to the intended design and that no new test will pass without a possible code modifications. This test also test the test itself , for if every new test pass then it is "worthless"

**Write some codes**

The next step is to write a some set of codes that will pass the test. This code might not be confirmed to be working without loop holes but then not regarded as a problem since subsequent stages will improve on it and cover up the "holes".

**Run Test**

If all possible test have been made and they were all successful then the programmer can conclude that the test has met all the requirement

### Refactor Code

All codes should be moved to the place they logically belong to (where they will function and perform their collective or individual task).Make clean up to eradicate duplicates,spaghetti and unused codes. Clarify any constructs that might be misinterpreted