Software Testing

Basic cycle

1. Identify a functionality
2. Write tests
3. Run Tests
4. Refactor (If Failed)
5. Repeat

Program Testing – intends to display programs efficacy to requirements and route bugs in program before deployment

When you test software you are using fake data.

You want to check the results for errors, anomalies, or information about the program’s non-functional traits.

These tests can reveal presence of errors but not their absence.

Testing is a component of the general verification and validation process which includes static techniques.

Program testing goals

Demonstrate software has met requirements

* Custom software requires a test for every requirement
* Generic software requires tests for each feature and combinations of those features.

Discovering issues with software behavior

* Defect testing is concerned with uncovering behavioral issues like crashes, unwanted interactions, bad calculations and data corruption

Validation and Defect testing

* First goal leads to validation testing