

## Blackbox Testing :

- Also called Behavioral testing
- Only based on requirement & specification
- 1. Functional, 2. Non-functional, 3. **Regression** (after update & doesn't impact code)

## White box Testing:

- Also called clearbox, glassbox, structural and code based testing
- Validate structure and code implementation
- Required Programming skills

## Gray box Testing:

- Combination of both

## Level of testing:

- Unit testing
- Integration testing
- System testing
- Acceptance testing

**Automation:** Used specific tools, test script can be reuse, save execution time & memory

**Integration Testing:** Unit & module are test as a group, focus flow of execution

**Selenium:** Open source software, user-friendly, support multi. language, parallel test execution, less hardware required, support all OS and all browsers

## Test Case:

- Set of instructions, used for requirement and work correctly
- Contains: title, description, test steps, execution results, and Actual results

**Static Testing:** perform without running the code

**Dynamic Testing:** perform after executing the application

**Smoke Testing:** test product to be ready or not, it save the time

**Sanity Testing:** checks new functionality and fixed bugs

**Usability Testing:** check system is easy to use or not

**Load Testing :** check system behavior except load

**Performance Testing:** check speed, scalability, and stability

**Compatibility Testing:** check the system runs of different platform or not

**Alpha Testing:** test by developer

**Beta Testing:** test by customer & users