

## **All the possible Difference between TDD & BDD:----->**

### **Test-Driven Development (TDD):--->**

- (i) TDD focuses on writing tests for small, individual pieces of code, like functions or methods.
- (ii) It's mainly for developers to ensure their code functions correctly at a granular level.
- (iii) Tests are written in the language of the programming code, using frameworks like JUnit ( for java purpose).
- (iv) Code is written to pass the tests, then refactored. This process is repeated iteratively, building up the software functionality step by step.
- (v) TDD helps catch bugs early and encourages modular, maintainable code design.
- (vi) Tests often focus on inputs and outputs, checking if the code behaves as expected under different conditions.

### **Behaviour-Driven Development (BDD):--->**

- (i) BDD focuses on describing how the software should behave from the perspective of the end-user or stakeholder.
- (ii) It encourages collaboration between developers, testers, and non-technical stakeholders to define and understand the desired behaviour.
- (iii) Tests are written in a human-readable format using a domain-specific language (DSL) like Gherkin(CUCUMBER FRAMEWORK), making them accessible to non-technical stakeholders.
- (iv) Tests are structured around scenarios that describe the expected behaviour of the system in specific situations.

(v) BDD tests the overall behaviour and functionality of the software, focusing on user interactions and outcomes.

(vi) BDD helps ensure that the software meets the intended business requirements and provides value to stakeholders by focusing on user-centric behaviour.