**Manual Testing**:

**Definition**: Manual testing involves step-by-step testing of an application’s performance **without using any test script**.

**Process**:

**Human Involvement**: QA analysts execute test cases manually by interacting directly with the application.

**Exploration**: Testers explore features, functionalities, and user interfaces.

**Validation**: They validate whether the application behaves as expected, identifies bugs, and ensures quality.

**Automation Testing**:

**Definition**: Testers write **code/test scripts** to automate test execution.

**Why Automation over manual:**

**Efficiency**: Executes repetitive tasks and regression tests without manual intervention.

**Consistency**: Provides more consistent results.