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**Final Lab**

**Software Testing**

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**Question No: 01**

**Demonstrate TDD For Laboratory Management System:**

**Explanation:**

In my project, I am building a Laboratory Management System using Test-Driven Development (TDD). This system manages lab tests, allowing you to find tests by their type, name, or both. First, I wrote tests to check that everything works correctly, and then I created the actual functions to make the tests pass. The main classes I used are ‘LabTest’, ‘LabTestService’, and ‘ILabTestRepository’. For testing purposes, I used a ‘FakeRepositoryForTest’ class as a fake repository to simulate the database. This method helps ensure my code is reliable and bug-free from the start.