Assignment – 05

TDD,BDD,FDD METHODOLOGIES:
1.TEST DRIVEN DESIGN:
Approach:
.Write a failing unit test first (Red).
.Write minimal code to pass the test (Green).
.Refactor the code.
.Repeat the cycle.
Benefits:
.Reduces bugs early in the code.
.Improves code quality and structure of the code.
.Makes refactoring in safer manner.
Suitable for:
.Backend logic.
.Developer-focused, test-heavy environments.
.Projects where correctness and low-level details are key.
2.BEHAVIOR DRIVEN DESIGN:
Approach:
.Define behavior in plain language (e.g., Given-When-Then)
.Automate those behavior specs as tests

.Implement code to satisfy expected behavior. Benefits: .Improves communication between developers, testers, and business stakeholders .Aligns development with business goals. .Tests are easier to read and understand. Suitable for: .Teams involving both technical and non-technical members .Projects with user-facing features .Agile development environments 3.FEATURE DRIVEN DESIGN: Approach: .Build features based on a complete feature list .Design and develop each feature in short iterations .Emphasizes delivering working features frequently Benefits: .Clear progress tracking. .Scales well for large teams. .Encourages planning and discipline.

Suitable for:

.Large or enterprise-level projects.

.Teams that value structure and documentation.

.Feature-rich applications.