### **Assignment 5: Infographic - Comparison of TDD, BDD, and FDD**

**Title:** Comparison of TDD, BDD, and FDD Methodologies

| **Aspect** | **TDD (Test-Driven Development)** | **BDD (Behavior-Driven Development)** | **FDD (Feature-Driven Development)** |
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| Full Form | Test-Driven Development | Behavior-Driven Development | Feature-Driven Development |
| Primary Focus | Ensuring code correctness through tests | Describing system behavior in user language | Developing based on client-valued features |
| Development Style | Write unit tests before writing code | Write scenarios before coding and testing | Develop by implementing features step-by-step |
| Who Writes the Tests | Developers | Developers, testers, business analysts | Developers |
| Specification Format | Unit test methods | Given-When-Then scenarios | Feature list with descriptions |
| Collaboration Level | Mainly technical team | High collaboration across teams | Moderate collaboration |
| Best Suited For | Small to medium-sized projects | Projects needing clarity between teams | Large projects with modular development |
| Common Tools | JUnit, NUnit, PyTest | Cucumber, SpecFlow, Behave | Project management and version control tools |

**Summary:**

* TDD is ideal for developers focused on code accuracy and testing from the start.
* BDD is best when collaboration between business and technical teams is critical.
* FDD suits large projects that require building software in increments based on features.