DAY 3:

ASSIGNMENT 2:

Q) Produce a comparative infographic of TDD, BDD, and FDD methodologies. Illustrate their unique approaches, benefits, and suitability for different software development contexts. Use visuals to enhance understanding.

ANSWER:

Creating a comparative infographic for Test-Driven Development (TDD), Behavior-Driven Development (BDD), and Feature-Driven Development (FDD) would look something like this:

Title: Comparative Overview of Software Development Methodologies

1. Test-Driven Development (TDD)

- Approach:
  - Illustration: Developer writing tests before code.
  - Text: Tests are written first to define the desired functionality.

- Benefits:
  - Illustration: Graph showing reduced bugs over time.
  - Text: Early bug detection, improved code quality, and better test coverage.

- Suitability:
  - Illustration: Icons representing small, iterative projects.
  - Text: Best for projects with well-defined requirements and frequent iterations.

2. Behavior-Driven Development (BDD)

- Approach:
  - Illustration: Team discussing user stories.
  - Text: Focuses on behavior and user stories, with tests written in natural language.

- Benefits:
  - Illustration: Team collaboration symbol.

- Text: Encourages collaboration between developers, testers, and business stakeholders.

- Suitability:
  - Illustration: Icons representing complex systems.
  - Text: Ideal for projects with complex business logic and extensive user interactions.

3. Feature-Driven Development (FDD)

- Approach:

  - Illustration: Feature breakdown into smaller tasks.

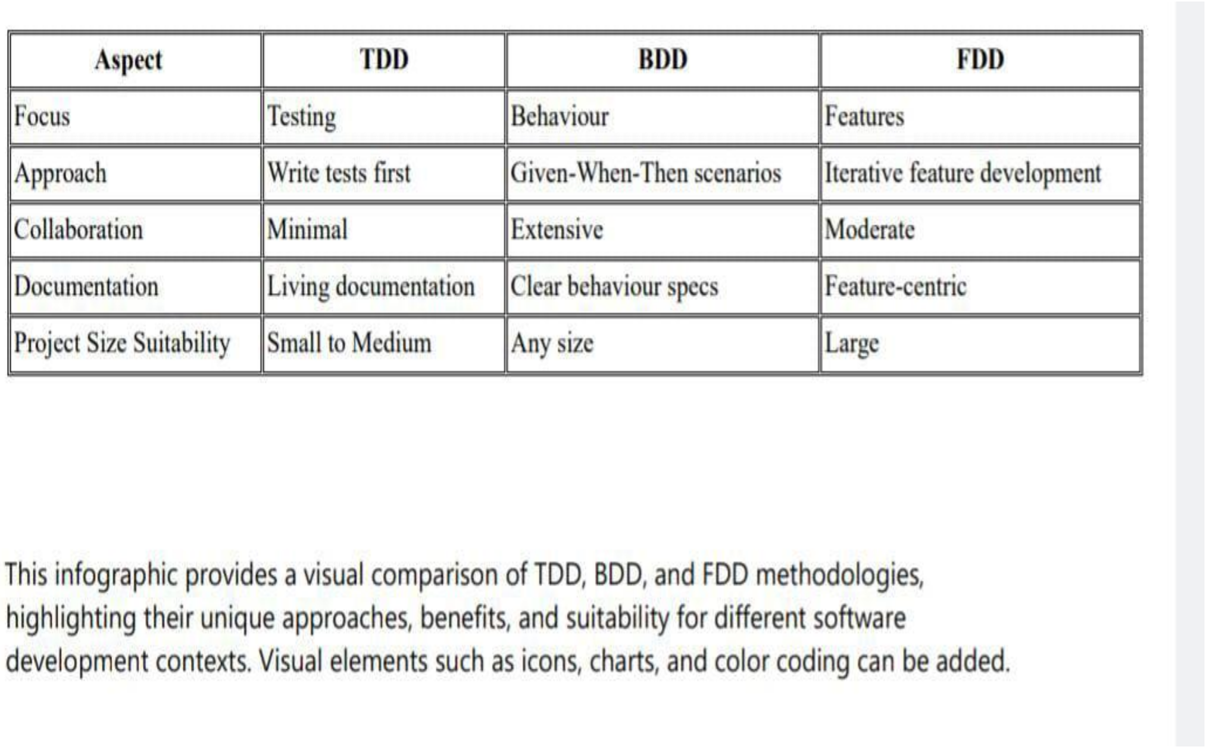
  - Text: Emphasizes feature-centric development with iterative delivery.

- Benefits:
  - Illustration: Faster delivery symbol.
  - Text: Facilitates rapid development and delivery of specific features.

- Suitability:
  - Illustration: Icons representing large-scale projects.

  - Text: Suited for large-scale projects with diverse feature sets and multiple teams.

Each methodology is visually represented with distinct illustrations and accompanied by concise text highlighting its approach, benefits, and suitability for different software development contexts. This infographic provides a quick overview for understanding the differences between TDD, BDD, and FDD. Let me know if you need further customization or details.



Aspect	TDD	BDD	FDD
Focus	Testing	Behaviour	Features
Approach	Write tests first	Given-When-Then scenarios	Iterative feature development
Collaboration	Minimal	Extensive	Moderate
Documentation	Living documentation	Clear behaviour specs	Feature-centric
Project Size Suitability	Small to Medium	Any size	Large

This infographic provides a visual comparison of TDD, BDD, and FDD methodologies, highlighting their unique approaches, benefits, and suitability for different software development contexts. Visual elements such as icons, charts, and color coding can be added.