**Day 4 – Assignment 1**

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**Difference between scrum and Kanban:**

**Solution:**

Scrum and Kanban are both popular frameworks used in Agile project management, but they have different approaches and structures. Here’s a comparison and key differences between the two:

**Scrum:**

1. Framework Type:

-Scrum is a prescriptive, iterative, and incremental framework.

2. Structure:

- Roles: Scrum Master, Product Owner, Development Team.

- Artifacts: Product Backlog, Sprint Backlog, Increment.

- Ceremonies: Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective.

3. Time-Boxing:

- Work is done in fixed-length iterations called Sprints, typically 2-4 weeks.

4. Change:

- No changes are allowed during a Sprint. Scope can be re-evaluated and adjusted in the next Sprint.

5. Commitment:

- Team commits to delivering a potentially shippable product increment by the end of each Sprint.

6. Focus:

- Emphasis on delivering a potentially shippable product increment each Sprint.

7. Metrics:

- Velocity is a key metric, tracking the amount of work completed in a Sprint.

**Kanban:**

1. Framework Type:

- Kanban is a flexible, flow-based framework.

2. Structure:

- Principles: Visualize Work, Limit Work in Progress (WIP), Manage Flow, Make Process Policies Explicit, Implement Feedback Loops, Improve Collaboratively.

- Tools: Kanban Board (with columns like To Do, In Progress, Done).

3. Time-Boxing:

- No fixed iterations. Work is continuously pulled through the system.

4. Change:

- Changes can be made at any time. It’s more adaptive to changing priorities.

5. Commitment:

- No concept of commitment to a set of work. Focus is on continuous delivery and improvement.

6. Focus:

- Emphasis on visualizing the workflow and managing the flow of work items.

7. Metrics:

- Lead Time, Cycle Time, Throughput are key metrics, focusing on the time it takes for work to move through the system and how much work gets done.