**Proper Sprint Plan for *BrainBrawl***

**Sprint 0 (Week 3–4): Project Setup**

* **Goals:**
  + Form groups, assign roles (e.g., Scrum Master, UI/UX, Backend, Testing).
  + Decide project topic → *BrainBrawl*.
  + Define scope: 1v1 quiz app with Maths, Geography, GK.
* **Deliverables:**
  + Project vision document.
  + GitHub repository with Maven + JavaFX setup.
  + Initial team responsibilities defined.

**Sprint 1 (Week 5): Requirements & Planning**

* **Goals:**
  + Write user stories.
  + Prioritize features (MVP: 1v1 quiz, category selection, scoring).
  + Create product backlog.
* **Deliverables:**
  + User stories backlog (e.g., play quiz, select category, track scores).
  + MoSCoW prioritization (Must/Should/Could/Won’t).

**Sprint 2 (Week 6): Design & Mock-ups**

* **Goals:**
  + Create UI wireframes (login, quiz screen, results).
  + Agree on design flow.
* **Deliverables:**
  + Low/medium fidelity mock-ups.
  + Finalized app navigation flow diagram.

**Sprint 3 (Week 7–8): Core Development with TDD**

* **Goals:**
  + Start coding with CRUD operations (quiz questions, scores, users).
  + Implement category-based quizzes.
  + Unit testing with TDD.
* **Deliverables:**
  + Working prototype with basic gameplay loop.
  + Test suite with >60% coverage.

**Sprint 4 (Week 9): Refactoring & Patterns**

* **Goals:**
  + Apply MVC architecture.
  + Refactor code with design patterns (e.g., Singleton for DB, Observer for score updates).
  + Improve UI styling.
* **Deliverables:**
  + Cleaner, maintainable code.
  + Improved UI theme.

**Sprint 5 (Week 10–11): Final Implementation**

* **Goals:**
  + Finalize all features.
  + Fix bugs.
  + Implement any “nice-to-have” features if time permits.
* **Deliverables:**
  + Fully working app.
  + Stable release branch in GitHub.

**Sprint 6 (Week 12): Team Integration & QA**

* **Goals:**
  + Ensure all members contributed equally.
  + Run final tests & integration checks.
  + Prepare presentation slides + demo.
* **Deliverables:**
  + QA-tested app.
  + Presentation draft.
  + Team contribution report.

**Sprint 7 (Week 13): Presentation & Final Upload**

* **Goals:**
  + Present *BrainBrawl*.
  + Upload to submission portal.
* **Deliverables:**
  + Final submission (code + report + slides).