Project Workflow: DNA Pattern Matching Using TST

Week 1: Planning & Setup	Week 2: Algorithm Implementation	Week 3: Comparison & Visualization	Week 4: Presentation Prep	Week 5: Final Submission

Week 1: Planning & Setup
- Confirm roles and workspace (Drive/GitHub)
- Review TST & pattern matching notes
- Gather references and draft outline
- Goal - define objectives & file structure

Week 2: Algorithm Implementation
- Write brute-force substring search
- Implement Ternary Search Trie (insert/search)
- Test both with sample DNA strings

Week 3: Comparison & Visualization
- Measure runtime for both methods
- Plot comparison chart
- Document findings in notebook (Markdown)

Week 4: Presentation Prep
- Create slides (intro, algorithm, results)
- Assign speaking parts
- Record and merge 5-min video

Week 5: Final Submission
- Proofread README and slides
- Final check of notebook outputs
- Submit files to Canvas before Dec 5