Centurion University	School: Campus:					
	Academic Year: Subject Name: Subject Code:					
	Semester: Program: Branch: Specialization:					
	Date:Applied and Action Learning					
(Learning by Doing and Discovery)						
Name of the Experiement: Team Dev - Git and Collaboration in Projects						
* Coding Phase: Pseudo Code / Flow Chart / Algorithm						
• Initialize	Repository – Create a Git repo locally (git init) or clone an existing one (git clone).					
Create Branches – Each developer creates their own branch for features/bug fixes.						
• Stage & Commit Changes — Developers make changes, then run git add . and git commit —m "message".						
Push to Remote – Upload changes to a shared remote repository (git push).						
• Pull Upd	ates – Regularly pull (git pull) to stay synced with the team's work.					
• Merge/Pi	<b>R</b> – Open a Pull Request (or Merge Request) to integrate feature branches into the main branch.					
• Code Re	view – Team reviews, suggests changes, and approves the PR.					
Merge to	Main – After approval, merge into the main/master branch.					
• Resolve Conflicts – If multiple people change the same code, resolve conflicts manually before merging.						
Deploy/Release – Final tested code is released from the main branch.						

## \* Software used

- 1. MetaMask Wallet
- 2. Remix IDE.
- 3. MS Word.
- 4. Brave for researching.

## \* Implementation Phase: Final Output (no error)

* Observations:				
☐ Final output: a well-maintained, collaborative, and version-controlled project.				
☐ Continuous Integration (CI) can run automated tests after merges.				
☐ The main branch always contains stable and updated code.				
$\square$ Pull Requests are created $\rightarrow$ Reviewed $\rightarrow$ Merged.				
☐ Developers push their branches to the remote repo.				
☐ Each member works on separate branches (e.g., feature-login, bugfix-db).				
☐ Developers clone it into their local systems.				
☐ Team creates a central repository (GitHub/GitLab).				

- Git enables seamless collaboration across distributed teams.
- Branching strategy avoids overwriting and ensures stable production code.
- Version control allows rollback if bugs appear in new updates.
- Merge conflicts highlight overlapping work, requiring coordination.
- Collaboration platforms (GitHub/GitLab) improve transparency and productivity.
- Git workflow is essential for team projects, hackathons, and open-source contributions.

## **ASSESSMENT**

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/	10		
Practical Simulation/ Programming			
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	50		

Signature of the Student:

Name:

Signature of the Faculty: Regn. No. :