



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 Experiment : 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`

☐ **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 Updates** – Regularly pull (`git pull`) to stay synced with the team's work.

☐ **Merge/PR** – Open a Pull Request (or Merge Request) to integrate feature branches into the main branch.

☐ **Code Review** – 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)

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

## \* Observations:

- ☐ 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**

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

***Signature of the Student:****Name :**Regn. No. :****Signature of the Faculty:***

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