

## Day 5 – Daily Diary (Training TR-102)

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**Name:** Prabhdeep Kaur

**URN:** 2435240

**CRN:** 2315289

**Institute:** Guru Nanak Dev Engineering College, Ludhiana

**Training Location:** STEP GNDEC, Ludhiana

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**Topic Covered:** Forking and Branching in Git & GitHub

◆ **What I Learned Today:**

On the fifth day of my training, I learned about **forking and branching in Git and GitHub**. Forking allows creating a personal copy of someone else's repository, which is helpful for contributing without changing the original code. Branching helps work on new features or fixes separately, keeping the main code safe.

I also learned about important concepts like the **main branch, feature branches, merging changes, pull requests, and resolving conflicts**. The trainer explained how these tools help teams work together efficiently and safely.

◆ **Activities Performed:**

- Forked a repository on GitHub and cloned it locally.
- Created a new branch to add a feature.
- Made changes and committed them with proper messages.
- Pushed the branch to the remote repository.
- Created a pull request to merge the feature into the main branch.
- Learned how to handle merge conflicts and resolve them.
- Explored GitHub interface for managing branches and pull requests.

◆ **Skills Gained:**

- Forking repositories for safe experimentation.
- Working with branches to organize development.
- Committing, pushing, and merging code changes.
- Understanding pull requests and collaborative workflows.
- Resolving merge conflicts efficiently.

**Reflection:**

Today's session helped me understand how developers **collaborate on large projects** without overwriting each other's work. Branching and forking make development organized and safe. I feel confident now to work on team projects using Git and GitHub.