DAY 5 REPORT

Date: 13.06.2025
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DAY 3

Date : 11.06.2025

Understanding Git and GitHub (Basics)

What is Git?

Git is a distributed version control system that allows developers to:

- Track changes made to files
- Collaborate on code with others
- Revert to previous versions of files
- Work on different features using branches

What is GitHub?

GitHub is a web-based platform that hosts Git repositories. It allows you to:

- Store and manage code online
- Collaborate with teammates
- Create and review pull requests
- Showcase projects publicly or privately

Git Commands Practiced on Day 1

1. Initialize a Git Repository

mkdir gitlearning

cd gitlearning

git init

This creates a new Git repository in the folder.

2. Configure Git

git config --global user.name "Pavithra"

git config --global user.email "you@example.com"

Sets the name and email to be used for commits.

3. Check File Status

git status

Displays the current state of the working directory and staging area.

4. Add Files to Staging

echo "Hello Git" > example.txt

git add example.txt

Adds the file to the staging area in preparation for a commit.

5. Commit Changes

git commit -m "Add example.txt"

Creates a commit with a message.

6. View Commit History

git log

Displays the history of commits.

7. Create and Switch to a New Branch

git checkout -b new-branch

Creates a new branch and switches to it.

DAY 4

Date : 12.06.2025

GitHub Integration and Advanced Commands

Connecting to GitHub

1. Add Remote Repository

git remote add origin https://github.com/PavithraGanapathi/Git_Learn.git

Adds a remote named 'origin' that points to the GitHub repository.

2. Rename Current Branch to Main

git branch -M main

Renames the current branch to 'main'.

3. Push Code to GitHub

git push -u origin main

Pushes the local repository to GitHub and sets the upstream branch.

4. Create and Push a New Branch

git checkout -b feature-1

git push -u origin feature-1

Creates a new branch and pushes it to GitHub.

5. Merge a Branch into Main

git checkout main

git merge feature-1

Merges the feature branch into the main branch.

6. Pull Latest Changes from GitHub

git pull origin main

Fetches and integrates the latest changes from the remote repository into the current branch.

7. See All Branches

git branch

Lists all local branches.

8. Unstage a File

git restore --staged example.txt

Removes a file from the staging area without deleting it.

9. Check Remote URLs

git remote -v

Shows the URLs for the remote repositories.
