Documentation

1. Date: 18 July 2025

Topics Covered:

- Linux command-line operations

- File navigation and editing ('cd', 'ls', 'mkdir', 'touch', 'nano', 'vim', 'cat', 'ls -a, -l', 'chmod', numerical as well as alphabetical denotion of users, groups, others, all)

-shell sripting (shebang line, running the .sh file in ./file.sh by chmod u+x, variables)

- Git commands: clone, add, commit, remote, push, pull, branch, merge, show, status, log, reset, diff, remote, checkout, tag

- GitHub authentication using Personal Access Token (PAT)

Practice Done:

- Navigated directories and created sample files in Linux terminal

- Edited text files using 'vim'

- Viewed today's terminal commands using `history`

- Cloned a GitHub repository using:

  git clone https://github.com/ashwanth01-pixel/github10.git

- Made file changes and committed them using:

  git add .

  git commit -m "Initial commit"

  git push -u origin master

- Pulled latest updates using:

  git pull origin master

Challenges Faced:

- Faced "authentication failed" error during `git push` -->Solved by generating a GitHub Personal Access Token and using it instead of password

 Key Learnings:

- Confidence in using Linux commands for basic file and directory management

- Practical understanding of Git's version control process