Training DevOps

Install GIt from https://git-scm.com/download

Create an account for git

```
git config --global user.name "Fauzan"
```

Create a email for git

git config --global user.email apauaie@gmail.com

Create Default Branch

git config - -global init.default branch main

Go to directory

cd ~/Documents/esp32iot/



Initialize Git

git init



Notice there will be a new folder .git with all versioning files

Check status of git

git status

Create .gitignore file to ignore certain file touch .gitignore



Edit to include what to ignore

Add files to Git

git add . or git add "<filename>"



notice that files added to gitignore will not be added

Commit Files to Repo

```
git commit -m "First Commit"
```

Look for the difference

git diff

Restore deleted file - Delete a file

git status



check the deleted file

Restore a file

git restore "<filename>"

Commit again to keep the log

git commit -m "Restoret files"

See the log to understand the commit history

git \log or git \log - - oneline

Amend a commit

```
git commit -m "Restore File" - amend
```

Branch

git branch fixing

Check branch

git branch

Switch to fixing branch

git switch fixing

Change a file then commit

git commit -a -m "update fixed"

Switch to main branch

git switch main

Merge Branch

```
git merge -m "Merge with Main" fixing
Delete branch
 git branch -d fixing
Check status of branch
 git branch
Activity
Make a new branch and edit a file
☐ Make a commit
☐ Go back to main branch and edit the same file with a different inffo
☐ Make a commit
☐ Merge both branch
Merge Conflicts
Fix the conflicts
 git commit -a -m "fixed conflict"
```