PRE-JOINING LEARNING PATH

1.GIT - GITHUB

VERSION CONTROL

# 1. What is Git?

- Git is a version control system, It is a tool that helps to track changes in code.

**2.GitHub for Windows**

- htps://windows.github.com

**3.Main commands**

**-** git init

initialize an existing directory as a Git repository

git clone [url]

retrieve an entire repository from a hosted location via URL

**4. Commands used mostly in GitHub.**

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* git clone [url]: retrieve an entire repository from a hosted location via URL
* git push [alias] [branch]: Transmit local branch commits to the remote repository branch
* git pull: fetch and merge any commits from the tracking remote branch
* git fetch:Downloads objects and refs from another repository but doesn’t merge them.
* git commit -m “[descriptive message]”: commit your staged content as a new commit snapshot
* add [ﬁle]: add a ﬁle as it looks now to your next commit (stage)
* git status: show modiﬁed ﬁles in working directory, staged for your next commit git

# 5. How to create Repository from local environment?

# - Step 1: Initialize a Local Repository

# git init

# Step 2: Create a New Repository on GitHub

Go to [GitHub](https://github.com) and Click on the **"+"** icon and select "New repository**."**

Fill in the repository name and description.

Click on the "Create repository" button.

Step 3: Link Local Repository to GitHub

git remote add origin [repository-url]

To verify that the remote was added correctly, run:

git remote -v

Step 4: Check and Rename the Branch

To check the current branch, run:

git branch

If your branch is named master and you want to rename it to main, run:

git branch -M main

Step 5: Stage and Commit Your Changes

If you have any files to add

git add .

Step 6: Push Your Changes to GitHub

git push -u origin main

# 6. How to undo changes in github?

- git reset :

clear staging area, rewrite working tree from speciﬁed commit