

# Lab 2

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### 1. Make a project deployment

<https://mhmt-elsheikh.github.io/Rep1/>

### 2. What is Pull Request and Request & difference between them?

- Pull Request (PR): A request to merge your changes from your branch (or fork) into another branch (usually main) of the original repository. Used for collaboration and code review.
- Request: A general term (like an API request). Not specific to Git.
- Difference: Pull Request is Git/GitHub specific, Request is a generic concept.

### 3. Make fork from your project and use it from another account



### 4. What is the command to delete the branch "new-email"

Locally:

```
git branch -d new-email
```

On GitHub (remote):

```
git push origin --delete new-email
```

### 5. What is the command to push the current repository to the remote origin?

```
git push origin main
```

## 6. What is Git Rebase and how to use it?

- Rebase: Moves your commits on top of the latest commits from another branch. Keeps history linear and clean.

Example:

```
git checkout feature-branch
git fetch origin
git rebase origin/main
```

## 7. What is the command to get all the change history of the remote repository "origin"?

```
git fetch origin
(To see commit history from remote: git log origin/main)
```

## 8. What is the command to show the differences between the current branch and the branch "new-email"?

```
git diff new-email
```

## 9. What is Tags and make five tags and release two of them?

- Tags: Labels used to mark specific commits (e.g., version releases).

Create 5 tags:

```
git tag v1.0
git tag v1.1
git tag v1.2
git tag v2.0
git tag v2.1
```

Push 2 of them to GitHub (release):

```
git push origin v1.0
git push origin v2.0
```

## Bonus: Make SSH to your repo

```
D:\ITI\Source Control\Day 1\Repo1>ssh -T git@github.com
The authenticity of host 'github.com (140.82.121.3)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
Hi Mhmt-Elsheikh! You've successfully authenticated, but GitHub does not provide shell access.
```