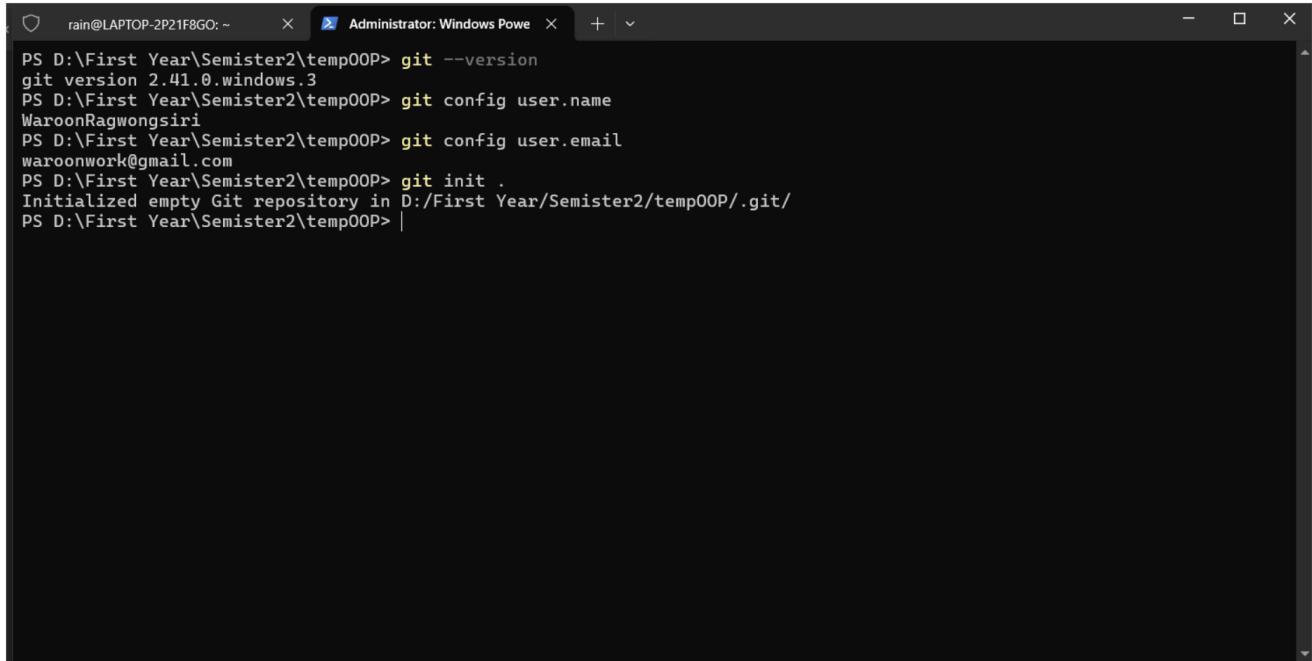


# Lab 6 Git and GitHub

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## 1 Create Local Repository



A screenshot of a Windows PowerShell window titled "Administrator: Windows Power". The window shows the command-line interface for creating a local Git repository. The commands entered are:

```
PS D:\First Year\Semister2\tempOOP> git --version
git version 2.41.0.windows.3
PS D:\First Year\Semister2\tempOOP> git config user.name
WaroonRagwongsiri
PS D:\First Year\Semister2\tempOOP> git config user.email
waroonwork@gmail.com
PS D:\First Year\Semister2\tempOOP> git init .
Initialized empty Git repository in D:/First Year/Semister2/tempOOP/.git/
PS D:\First Year\Semister2\tempOOP> |
```

## 2 Create Remote Repository

The screenshot shows a GitHub repository page for 'OOPLab6'. At the top, there are buttons for 'Pin', 'Watch 0', 'Fork 0', and 'Star 0'. On the left, there's a section titled 'Start coding with Codespaces' with a 'Create a codespace' button. On the right, there's a section titled 'Add collaborators to this repository' with a 'Invite collaborators' button. Below these sections, there's a 'Quick setup — if you've done this kind of thing before' area. It includes a 'Set up in Desktop' button, an 'or' button, 'HTTPS' and 'SSH' buttons, and a text input field containing the URL 'git@github.com:WaroonRagwongsiri/OOPLab6.git'. A note below the input field says 'Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#)'. At the bottom, there's a section titled '...or create a new repository on the command line' with the following git commands:

```
echo "# OOPLab6" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:WaroonRagwongsiri/OOPLab6.git
git push -u origin main
```

### 3 Create File

The screenshot shows a code editor interface with a dark theme. On the left, the Explorer panel displays a folder named 'TEMPOOP' containing a file named 'hello.py'. The main editor panel shows the contents of 'hello.py':

```
hello.py > ...
1 def main():
2     print("Hello Wrold!")
3
4 if __name__ == '__main__':
5     main()
```

## 4 Add file to remote repository

```
PS D:\First Year\Semister2\tempOOP> git init .
Initialized empty Git repository in D:/First Year/Semister2/tempOOP/.git/
PS D:\First Year\Semister2\tempOOP> code .
PS D:\First Year\Semister2\tempOOP> git remote add origin git@github.com:WaroonRagwongsiri/OOPLab6.git
PS D:\First Year\Semister2\tempOOP> git add .
PS D:\First Year\Semister2\tempOOP> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:  hello.py

PS D:\First Year\Semister2\tempOOP> git branch -M main
PS D:\First Year\Semister2\tempOOP> git commit -m "first commit"
[main (root-commit) f6574e6] first commit
 1 file changed, 5 insertions(+)
 create mode 100644 hello.py
PS D:\First Year\Semister2\tempOOP> git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 281 bytes | 281.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:WaroonRagwongsiri/OOPLab6.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS D:\First Year\Semister2\tempOOP> |
```

## 5 Create branch feature-1

```
PS D:\First Year\Semister2\tempOOP> git branch feature-1
PS D:\First Year\Semister2\tempOOP> git checkout feature-1
Switched to branch 'feature-1'
```

## 6 Modified file and push branch

```
PS D:\First Year\Semister2\tempOOP> git add .
PS D:\First Year\Semister2\tempOOP> git commit -m "fix typo 1"
On branch feature-1
nothing to commit, working tree clean
PS D:\First Year\Semister2\tempOOP> git push
fatal: The current branch feature-1 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature-1

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

PS D:\First Year\Semister2\tempOOP> git push --set-upstream origin feature-1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 312 bytes | 156.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature-1' on GitHub by visiting:
remote:     https://github.com/WaroonRagwongsiri/OOPLab6/pull/new/feature-1
remote:
To github.com:WaroonRagwongsiri/OOPLab6.git
 * [new branch]      feature-1 -> feature-1
branch 'feature-1' set up to track 'origin/feature-1'.
PS D:\First Year\Semister2\tempOOP> |
```

## 7 Create and push sub-branch

```
branch 'feature-1' set up to track 'origin/feature-1'.
PS D:\First Year\Semister2\temp00P> git branch sub-feature-1
PS D:\First Year\Semister2\temp00P> git checkout sub-feature-1
Switched to branch 'sub-feature-1'
PS D:\First Year\Semister2\temp00P> git add .
PS D:\First Year\Semister2\temp00P> git commit -m "fix typo 2"
[sub-feature-1 5c7a4c3] fix typo 2
 1 file changed, 1 insertion(+), 1 deletion(-)
PS D:\First Year\Semister2\temp00P> git push --set-upstream origin sub-feature-1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 311 bytes | 311.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'sub-feature-1' on GitHub by visiting:
remote:     https://github.com/WaroonRagwongsiri/OOPLab6/pull/new/sub-feature-1
remote:
To github.com:WaroonRagwongsiri/OOPLab6.git
 * [new branch]      sub-feature-1 -> sub-feature-1
branch 'sub-feature-1' set up to track 'origin/sub-feature-1'.
PS D:\First Year\Semister2\temp00P> |
```

## 8 Merge sub-feature-1 to feature-1

```
PS D:\First Year\Semister2\temp00P> git checkout feature-1
Switched to branch 'feature-1'
Your branch is up to date with 'origin/feature-1'.
PS D:\First Year\Semister2\temp00P> git merge sub-feature-1
Updating 5e1d743..5c7a4c3
Fast-forward
  hello.py | 2 +-
  1 file changed, 1 insertion(+), 1 deletion(-)
PS D:\First Year\Semister2\temp00P> |
```

## 9 Merge feature-1 to main

```
PS D:\First Year\Semister2\temp00P> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS D:\First Year\Semister2\temp00P> git merge feature-1
Updating f6574e6..5c7a4c3
Fast-forward
  hello.py | 2 +-
  1 file changed, 1 insertion(+), 1 deletion(-)
PS D:\First Year\Semister2\temp00P> |
```

## 10 Repository Url

<https://github.com/WaroonRagwongsiri/OOPLab6>  
<https://github.com/WaroonRagwongsiri/OOPLab6.git>