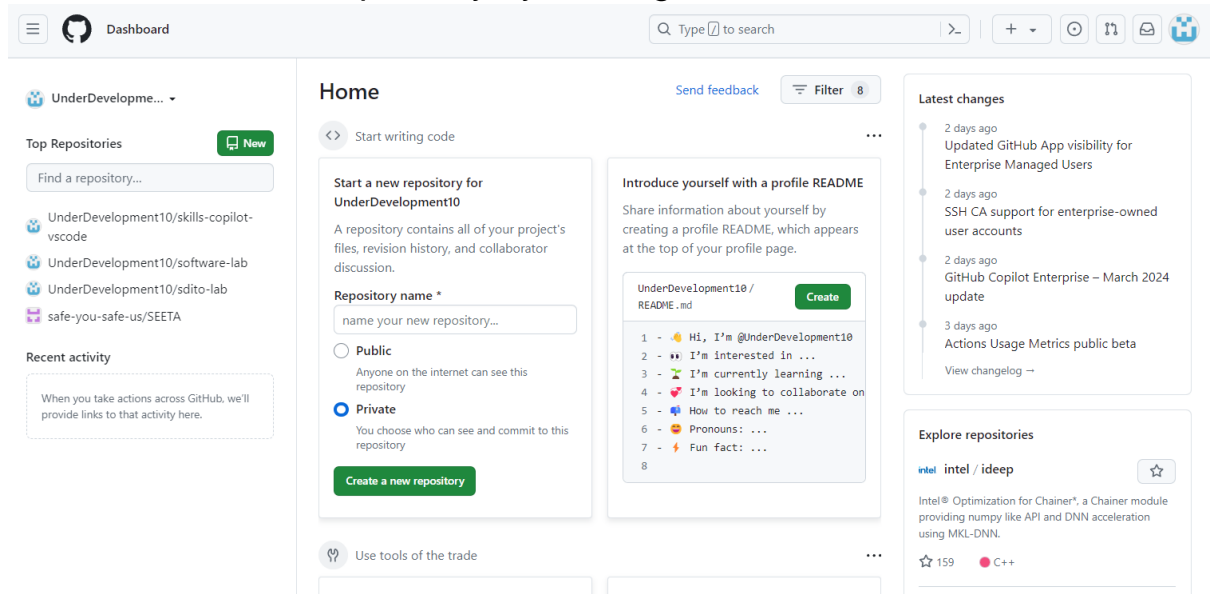


# Assignment – 8

## Problem Statement:

Deploy a project from a local machine to GitHub and vice versa.

1) First, create a new repository by clicking New.



2) Give repository name and make it public.

The screenshot shows the 'Create a new repository' form. It includes fields for 'Repository template' (set to 'No template'), 'Owner' (set to 'UnderDevelopment10'), and 'Repository name' (set to 'software-lab'). The 'Description' field is optional. The 'Public' option is selected under 'Repository visibility'. Below this, there are sections for 'Initialize this repository with:' (with 'Add a README file' selected), 'Add .gitignore' (with 'None' selected), and 'Choose a license' (with 'None' selected). A green 'Create repository' button is at the bottom right.

#### 4) Click on Account section and then go to Settings.

The screenshot shows the GitHub repository page for 'software-lab' under the user 'UnderDevelopment10'. The account menu is open, showing options like 'Set status', 'Your profile', 'Add account', 'Your repositories', 'Your projects', 'Your Copilot', 'Your organizations', 'Your enterprises', 'Your stars', 'Your sponsors', 'Your gists', 'Upgrade', 'Try Enterprise', 'Feature preview', 'Settings', 'GitHub Support', 'GitHub Community', and 'Sign out'. The 'Settings' option is highlighted.

#### 5) Click on Developer settings.

The screenshot shows the GitHub Developer Settings page. The left sidebar contains a list of settings categories: Codespaces, Packages, Copilot, Pages, Saved replies, Security, Code security and analysis, Integrations, Applications, Scheduled reminders, Archives, Security log, Sponsorship log, and Developer settings (which is highlighted). The main content area shows the 'Developer Settings' page with sections for ORCID iD, Social accounts, Company, Location, and a checkbox for 'Display current local time'. The 'Update profile' button is visible at the bottom.

**ORCID iD**  
ORCID provides a persistent identifier - an ORCID iD - that distinguishes you from other researchers. Learn more at [ORCID.org](https://orcid.org).  
[Connect your ORCID iD](#)

**Social accounts**  
[Link to social profile](#)  
[Link to social profile](#)  
[Link to social profile](#)  
[Link to social profile](#)

**Company**  
  
You can @mention your company's GitHub organization to link it.

**Location**

☐ **Display current local time**  
Other users will see the time difference from their local time.

All of the fields on this page are optional and can be deleted at any time, and by filling them out, you're giving us consent to share this data wherever your user profile appears. Please see our [privacy statement](#) to learn more about how we use this information.

[Update profile](#)

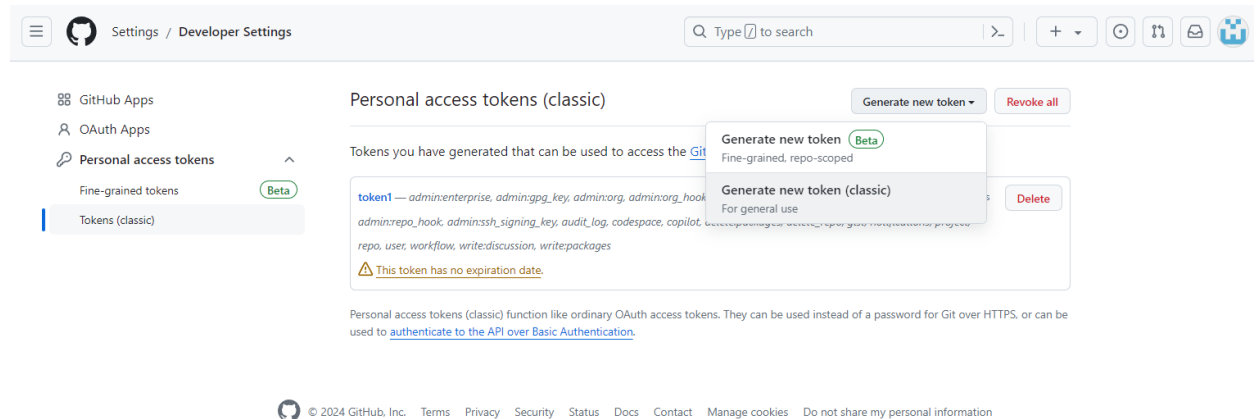
**GitHub Apps**  
Want to build something that integrates with and extends GitHub? [Register a new GitHub App](#) to get started developing on the GitHub API. You can also read more about building GitHub Apps in our [developer documentation](#).

[New GitHub App](#)

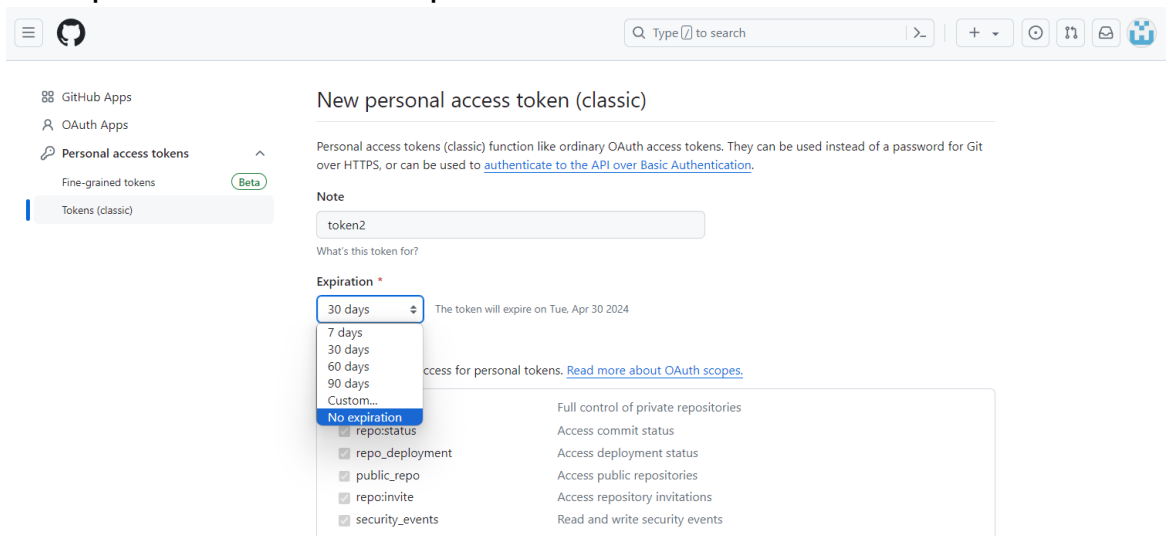
**GitHub Apps**  
[OAuth Apps](#)  
[Personal access tokens](#)  
[Fine-grained tokens](#) **Beta**  
[Tokens \(classic\)](#)

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6) Click on Personal access tokens dropdown, select Tokens(classic). Then, from Generate new tokens, click Generate new token(classic).



7) In Expiration select No expiration.



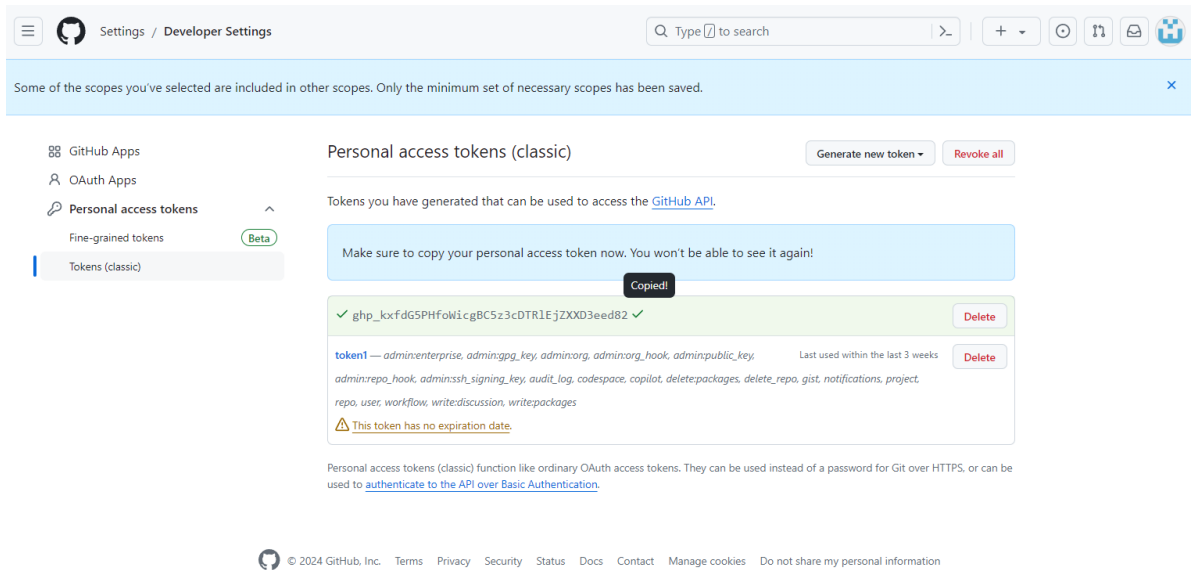
8) In Select scopes select all options and click Generate token.

Select scopes	
Scopes define the access for personal tokens. <a href="#">Read more about OAuth scopes.</a>	
<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> reposstatus	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> reposinvite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input checked="" type="checkbox"/> workflow	Update GitHub Action workflows
<input checked="" type="checkbox"/> write_packages	Upload packages to GitHub Package Registry
<input checked="" type="checkbox"/> read_packages	Download packages from GitHub Package Registry
<input checked="" type="checkbox"/> delete_packages	Delete packages from GitHub Package Registry
<input checked="" type="checkbox"/> admin_org	Full control of orgs and teams, read and write org projects
<input checked="" type="checkbox"/> write_org	Read and write org and team membership, read and write org projects
<input checked="" type="checkbox"/> read_org	Read org and team membership, read org projects
<input checked="" type="checkbox"/> manage_runners_org	Manage org runners and runner groups
<input checked="" type="checkbox"/> admin_public_key	Full control of user public keys
<input checked="" type="checkbox"/> write_public_key	Write user public keys
<input checked="" type="checkbox"/> read_public_key	Read user public keys
<input checked="" type="checkbox"/> admin_repo_hook	Full control of repository hooks
<input checked="" type="checkbox"/> write_repo_hook	Write repository hooks
<input checked="" type="checkbox"/> read_repo_hook	Read repository hooks
<input checked="" type="checkbox"/> admin_org_hook	Full control of organization hooks
<input checked="" type="checkbox"/> gist	Create gists
<input checked="" type="checkbox"/> notifications	Access notifications
<input checked="" type="checkbox"/> user	Update ALL user data
<input checked="" type="checkbox"/> read_user	Read ALL user profile data
<input checked="" type="checkbox"/> user_email	Access user email addresses (read-only)

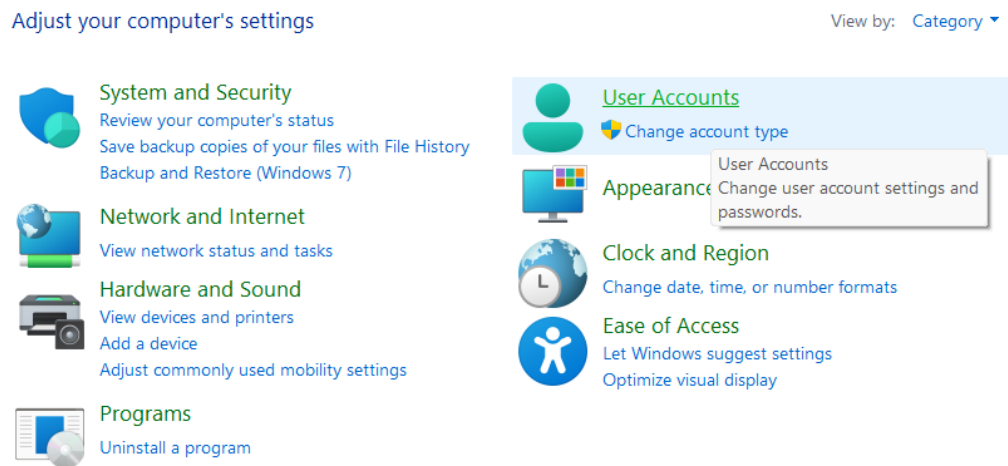
<input checked="" type="checkbox"/> user	Update ALL user data
<input checked="" type="checkbox"/> read_user	Read ALL user profile data
<input checked="" type="checkbox"/> user_email	Access user email addresses (read-only)
<input checked="" type="checkbox"/> user_follow	Follow and unfollow users
<input checked="" type="checkbox"/> delete_repo	Delete repositories
<input checked="" type="checkbox"/> write_discussion	Read and write team discussions
<input checked="" type="checkbox"/> read_discussion	Read team discussions
<input checked="" type="checkbox"/> admin_enterprise	Full control of enterprises
<input checked="" type="checkbox"/> manage_runners_enterprise	Manage enterprise runners and runner groups
<input checked="" type="checkbox"/> manage_billing_enterprise	Read and write enterprise billing data
<input checked="" type="checkbox"/> read_enterprise	Read enterprise profile data
<input checked="" type="checkbox"/> audit_log	Full control of audit log
<input checked="" type="checkbox"/> read_audit_log	Read access of audit log
<input checked="" type="checkbox"/> codespace	Full control of codespaces
<input checked="" type="checkbox"/> codespace_secrets	Ability to create, read, update, and delete codespace secrets
<input checked="" type="checkbox"/> copilot	Full control of GitHub Copilot settings and seat assignments
<input checked="" type="checkbox"/> manage_billing_copilot	View and edit Copilot Business seat assignments
<input checked="" type="checkbox"/> project	Full control of projects
<input checked="" type="checkbox"/> read_project	Read access of projects
<input checked="" type="checkbox"/> admin_gpg_key	Full control of public user GPG keys
<input checked="" type="checkbox"/> write_gpg_key	Write public user GPG keys
<input checked="" type="checkbox"/> read_gpg_key	Read public user GPG keys
<input checked="" type="checkbox"/> admin_ssh_signing_key	Full control of public user SSH signing keys
<input checked="" type="checkbox"/> write_ssh_signing_key	Write public user SSH signing keys
<input checked="" type="checkbox"/> read_ssh_signing_key	Read public user SSH signing keys

Generate tokenCancel

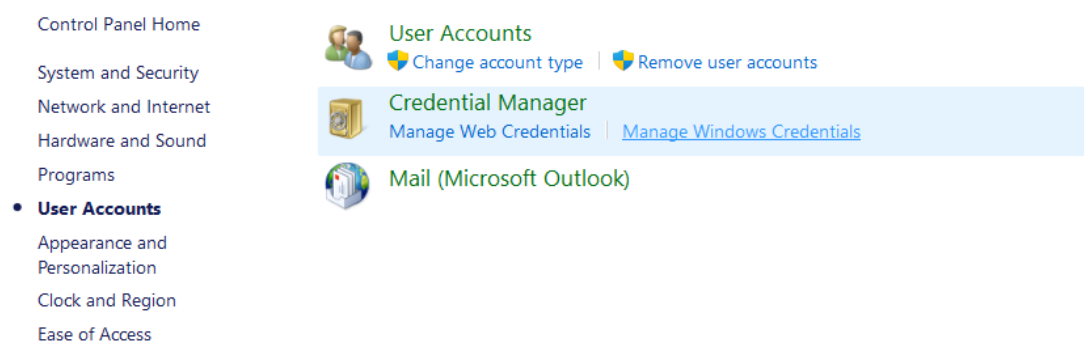
9) After generating token click on copy option for token and save it in text document.



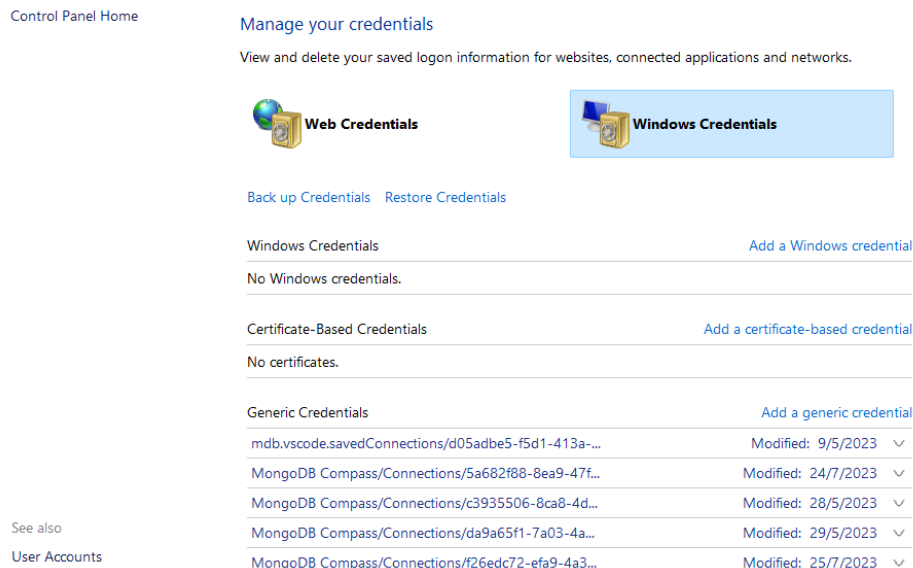
10) Then, go to Control Panel and click on User's account.



11) Go to Manage Windows Credentials.



## 12) In Generic Credential remove any previous GitHub account.



## 13) Now, right click on website folder and open git bash here.



## 14) Write all the following commands:

- `git init` :— to initialize git repository
- `dir` :— to see what files present in folder
- `git add .` :— to add all files to git repository
- `git status` :— to check status of files(committed or not)
- `git commit -m "Done"` :— Commit files with given message
- `git remote add origin`  
`https://github.com/UnderDevelopment10/software-lab.git` :— to connect remote repository to the local repository
- `git push -u origin master` :— to push the commits from local "master" branch to the remote repository named "origin"

```
Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages
$ git init
Initialized empty Git repository in C:/Users/Utsav Das/Documents/6TH SEM/AWS LAB
/Webpages/.git/

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages (master)
$ dir
about.html  home.html  index.html

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages (master)
$ git add .

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages (master)
$ git status
On branch master

No commits yet

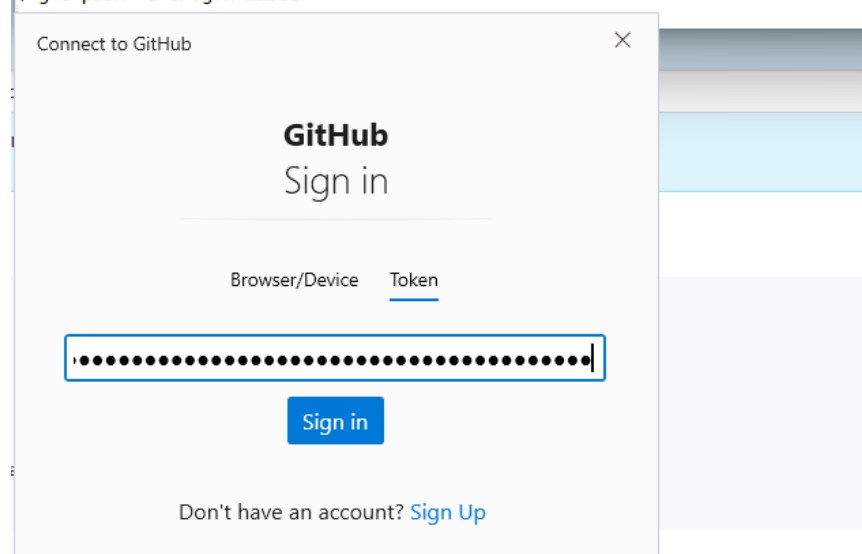
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   about.html
        new file:   home.html
        new file:   index.html

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages (master)
$ git commit -m "Done"
[master (root-commit) f2529b0] Done
3 files changed, 39 insertions(+)
create mode 100644 about.html
create mode 100644 home.html
create mode 100644 index.html

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages (master)
$ git remote add origin https://github.com/UnderDevelopment10/software-lab.git
```

15) After push command a new window opens. Go to token option, paste the copied token text, and click on Sign in.

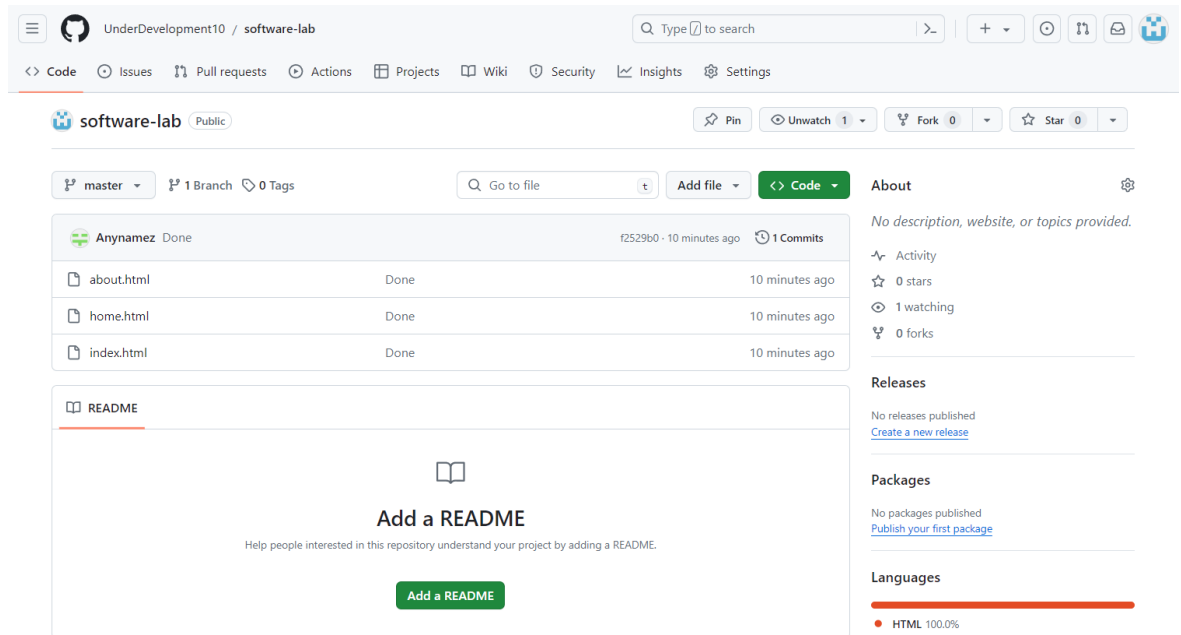
```
Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages (master)
$ git push -u origin master
```



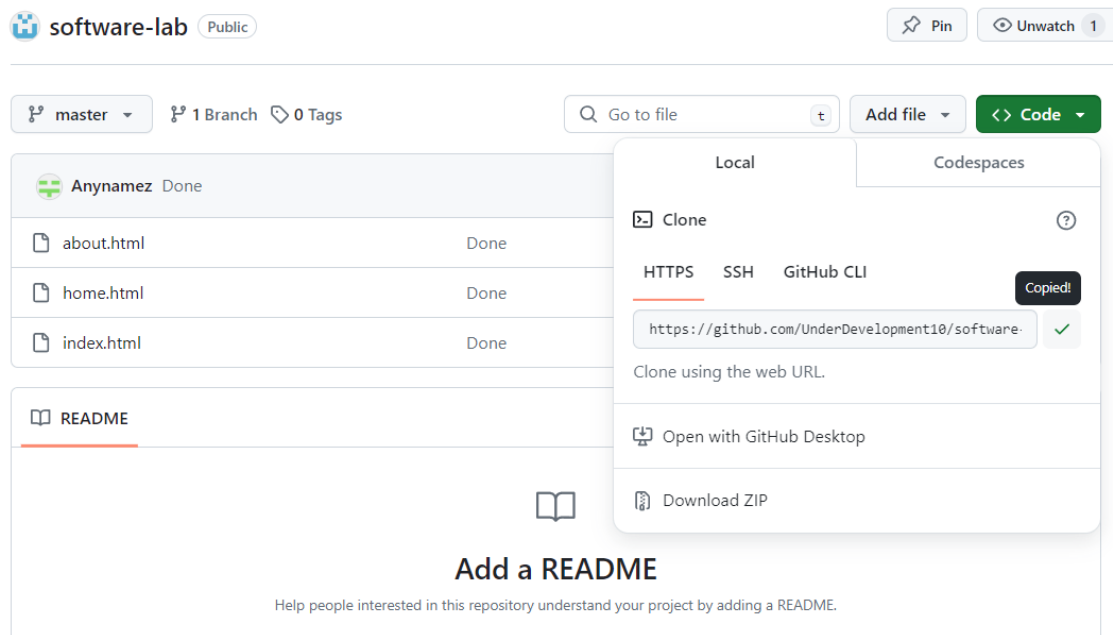
```
Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages (master)
$ git push -u origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 580 bytes | 580.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/UnderDevelopment10/software-lab.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Webpages (master)
$
```

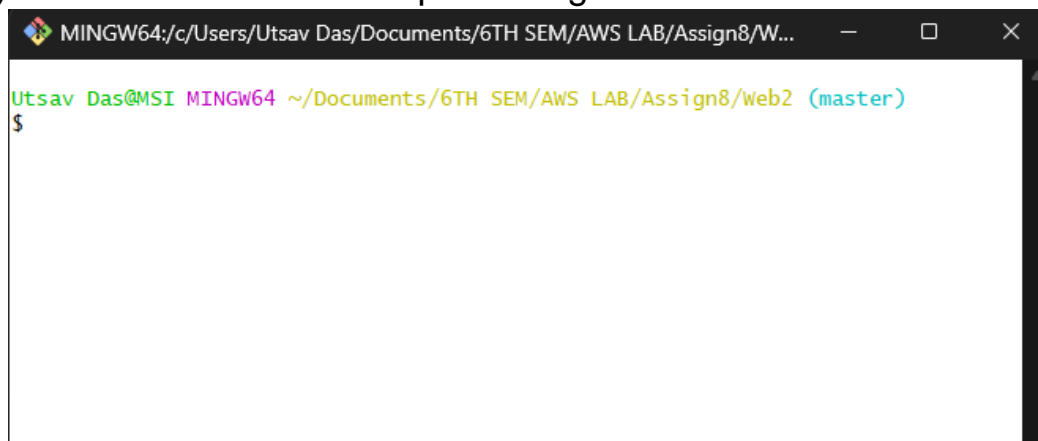
16) Go back to GitHub and enter created repository, where all uploaded files can be seen.



17) Click on Code and copy Clone HTTPS link.



18) Make a new folder and open with git bash.



19) Now write all following commands:

- git init :– to initialize git repository
- git clone :– to create a copy of a remote Git repository on local machine.

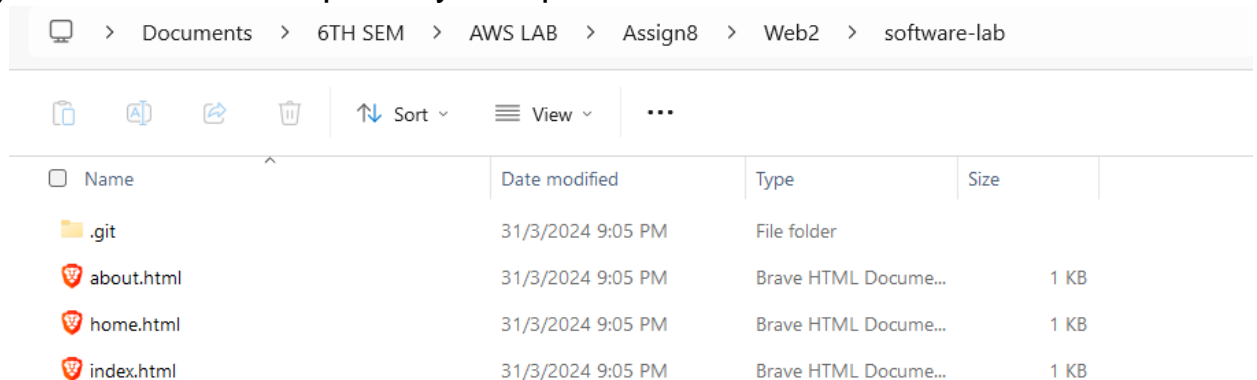
```
MINGW64;C:/Users/Utsav Das/Documents/6TH SEM/AWS LAB/Assign8/Web2

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Assign8/Web2
$ git init
Initialized empty Git repository in C:/Users/Utsav Das/Documents/6TH SEM/AWS LAB/Assign8/Web2/.git/

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Assign8/Web2 (master)
$ git clone https://github.com/UnderDevelopment10/software-lab.git
Cloning into 'software-lab'...
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 5 (delta 2), reused 5 (delta 2), pack-reused 0
Receiving objects: 100% (5/5), done.
Resolving deltas: 100% (2/2), done.

Utsav Das@MSI MINGW64 ~/Documents/6TH SEM/AWS LAB/Assign8/Web2 (master)
$
```

20) We can see that repository is copied into new folder Web2.



Documents > 6TH SEM > AWS LAB > Assign8 > Web2 > software-lab				
Sort View ...				
<input type="checkbox"/> Name	Date modified	Type	Size	
.git	31/3/2024 9:05 PM	File folder		
about.html	31/3/2024 9:05 PM	Brave HTML Docume...	1 KB	
home.html	31/3/2024 9:05 PM	Brave HTML Docume...	1 KB	
index.html	31/3/2024 9:05 PM	Brave HTML Docume...	1 KB	

21) In this way we have deployed a project from local machine to GitHub and vice versa.