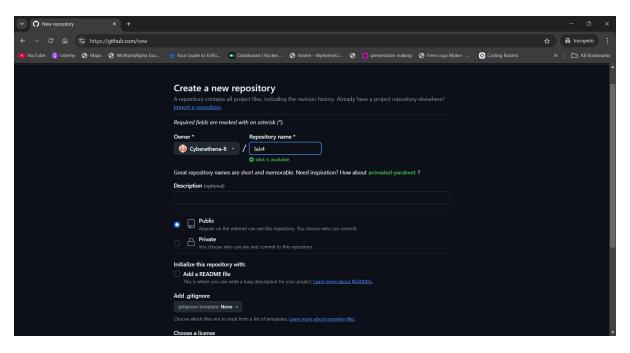
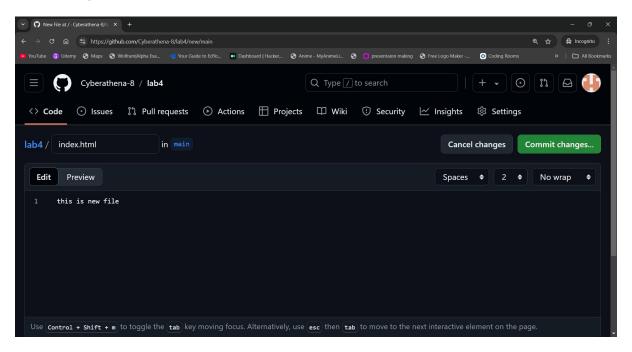
# **Assignment 4**

# Creating the repository on GitHub



# Creating new file



### Cloning the laboratory

```
Description of the property of
```

## Creating changes and pushing to origin

```
| PubpakeMSI:-/new_repo/lab4$ cat index.html
this is new modification in the file
pushpakeMSI:-/new_repo/lab4$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: index.html

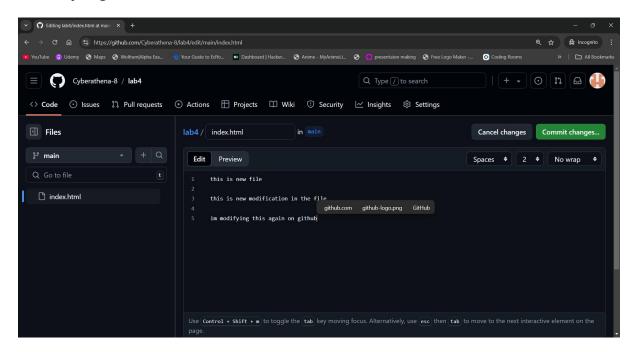
no changes added to commit (use "git add" and/or "git commit -a")
pushpakeMSI:-/new_repo/lab4$ git add index.html
pushpakeMSI:-/new_repo/lab4$ git commit -m "Modified index.html locally"
I file changed, 2 insertions(+)
pushpakeMSI:-/new_repo/lab4$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
pushpakeMSI:-/new_repo/lab4$ git push origin main
Username for 'https://github.com': Pushpak-23
Password for 'https://pushpak-23@github.com':
Enumerating objects: 100% (5/5), done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
```

# Modifying on GitHub



# Modifying locally

```
| PubpakeMSI:-/new_repo/lab4$ vi index.html
pushpakeMSI:-/new_repo/lab4$ cat index.html
this is new modification in the file
im changing now from the local
pushpakeMSI:-/new_repo/lab4$ |
```

### Trying to push

```
| E pubpak@MSI:-/new_repo/lab4$ vi index.html
pushak@MSI:-/new_repo/lab4$ cat index.html
pushak@MSI:-/new_repo/lab4$ cat index.html
this is new modification in the file

im changing now from the local
pushak@MSI:-/new_repo/lab4$ git add index.html
pushak@MSI:-/new_repo/lab4$ git commit -m "Another local modification"
[main e9bdb04] Another local modification
1 file changed, 2 insertions(+)
pushak@MSI:-/new_repo/lab4$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
    (use "git push" to publish your local commits)

nothing to commit, working tree clean
pushpak@MSI:-/new_repo/lab4$ git push origin main
Username for 'https://github.com': Pushpak-23
Password for 'https://github.com': Pushpak-23
Password for 'https://github.com' bushpak-23
Password for 'https://github.com' bushpak-23
Password for 'https://github.com' bushpak-23
Password for 'https://sithub.com' bushpak-24
! [rejected] main -> main (fetch first)
error: falled to push some refs to 'https://github.com/Cyberathena-8/lab4'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
pushpak@MSI:-/new_repo/lab4$ |
```

## Pull changes from GitHub

```
PubpakeMSI:-/new_repo/lab4$ git pull origin main remote: Enumerating objects: 5, done. remote: Counting objects: 100% (5/5), done. remote: Compressing objects: 100% (5/5), done. remote: Compressing objects: 100% (2/2), done. remote: Compressing objects: 100% (3/3), 944 bytes | 236.00 KiB/s, done. From https://github.com/cyberathena-8/lab4 * branch main -> FEICH_HEAD 249f621.f34c645 main -> origin/main * o
```

# Successfully pushing

```
pushpak@MSI:~/new_repo/lab4$ cat index.html
this is new file

this is new modification in the file

im changing now from the local
Another local modification
Modification on GitHub
pushpak@MSI:~/new_repo/lab4$ git add results.txt
fatal: pathspace ("repo/lab4$ git add index.html
pushpak@MSI:~/new_repo/lab4$ git commit -m "Resolved conflict in results.txt by keeping both changes"
On branch main
Your branch and 'origin/main' have diverged,
and have 2 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

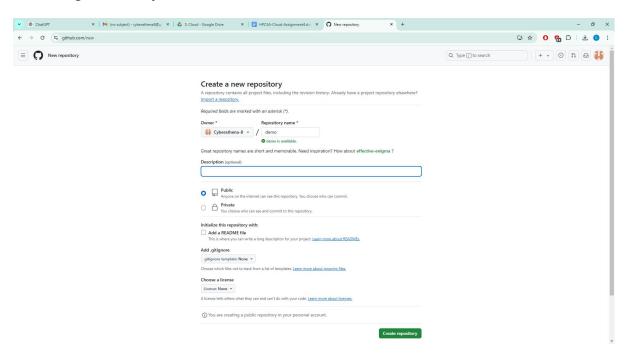
nothing to commit, working tree clean
pushpak@MSI:~/new_repo/lab4$ git commit -m "Resolved conflict in results.txt by keeping both changes"
On branch main
Your branch and 'origin/main' have diverged,
and have 2 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

nothing to commit, working tree clean
pushpak@MSI:~/new_repo/lab4$

nothing to commit, working tree clean
pushpak@MSI:~/new_repo/lab4$
```

#### Question 2

### Creating directory on GitHub



## Creating a local repository

## Link local repository to git

```
### Dushpak@osboxes:-/assign/hpcsa% git remote add origin https://github.com/Cyberathena-8/demo.git
pushpak@osboxes:-/assign/hpcsa% vi index.html
pushpak@osboxes:-/assign/hpcsa% cat index.html
<!DOCTYPE html>
<html>
<html>
chtml>
chtml
chtml>
chtml>
chtml
chtml>
chtml
ch
```

#### Pushing to the GitHub

```
pushpak@caboxes:-/assign/hpcsa5 git push -u origin master
Username for 'https://github.com': cyberathena-8
Password for 'https://github.com': cyberathena-8
Password for 'https://github.com': cyberathena-8
Counting objects: 1080 (6/6), done.

Delta compression using up to 8 threads
Compressing objects: 1080 (6/6), fish bytos | E15.00 KiB/s, done.

Writing objects: 1080 (6/6), fish bytos | pack-reused 0

To https://github.com/cyberathena-8/demo.git

* [new branch] master > master > master' from 'origin'.

pushpak@osboxes:-/assign/hpcsa5
```

#### Question 3

### Creating the Container

```
pushpak@osboxes:-$ docker run -it --name my_ubuntu_container ubuntu
Unable to find image 'ubuntu:latest' locally
Latest: Pulling from library/ubuntu
ff65ddf93955: Pull complete
Digest: sha26:990c51990e3209962d2024cdace2783ac55effc69d32896daan265f0bbedbcde4fbe3e5
Status: Downloaded newer image for ubuntu:latest
root@f0caa013745:/# apt update
Get:1 http://security.ubuntu.com/ubuntu noble-encurity Infelease [126 kB]
Get:1 http://archive.ubuntu.com/ubuntu noble-backports Infelease [256 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-backports Infelease [126 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-backports Infelease [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [574 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [574 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [574 kB]
Get:1 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [574 kB]
Get:1 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [574 kB]
Get:1 http://security.ubuntu.com/ubuntu noble-security/nuriverse amd64 Packages [574 kB]
Get:1 http://security.ubuntu.com/ubuntu noble-security/nuriverse amd64 Packages [176 kB]
Get:1 http://archive.ubuntu.com/ubuntu noble-security/nuriverse amd64 Packages [176 kB]
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [176 kB]
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [18.4 kB]
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packa
```

#### Installing python

#### Creating image from the container

```
root@70caa0137454:/# python3 --version
Python 3.12.3
root@70caa0137454:/# exit
pushpak@osboxes:~$ docker commit my_ubuntu_container ubuntu-python
sha256:e94f769976f2aa53b9fbc6729f306110fb36978fbf951e901d803a9f8616c93d
pushpak@osboxes:~$ docker images
REPOSITORY
                   TAG
                                IMAGE ID
                                                   CREATED
                                e94f769976f2
59ab366372d5
                   latest
                                                                        161MB
ubuntu-python
                                                  14 seconds ago
ubuntu latest
pushpak@osboxes:~$
                                                                        78.1MB
ubuntu
                                                  4 weeks ago
```

#### Running python in new container

```
pushpak@osboxes:-$ docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

ubuntu—python latest e94f769976f2 2 minutes ago 161MB

ubuntu latest 59836637265 4 weeks ago 78.1MB

pushpak@osboxes:-$ docker run -it ubuntu-python python3

Python 3.12.3 (main, Sep 11 2024, 14:17:37) [GCC 13.2.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

>>> ■
```

#### Question 4

#### Creating container with 9000 port

```
pushpak@osboxes:-$ docker run -d --name httpd_container -p 9000:80 httpd
Unable to find image 'httpd:latest' locally
latest: Pulling from library/httpd
a480a496ba95: Pull complete
3a2663e66670: Pull complete
4f4fb700ef54: Pull complete
867b2ea3623d: Pull complete
867b2ea3623d: Pull complete
867b2ea3623d: Pull complete
biggest: sha256:bbea29057f25d9543e6a96a8e3cc7c7c937206d20eab2323f478fdb2469d536d
Status: Downloaded newer image for httpd:latest
70af3if2sa0488b9770f188df783c7b28405a71950c6a9644a6be8c48bf60d84e
pushpak@osboxes:-$
```

#### Checking the URL

```
pushpak@osboxes:-$ docker run -d --name httpd_container -p 9000:80 httpd
Unable to find image 'httpd:latest' locally
latest: Pulling from library/httpd
a480a496ba95: Pull complete
3a2663e66670: Pull complete
4f4fb700ef54: Pull complete
867b2ea3628d: Pull complete
867b2ea3628d: Pull complete
Bigest: sha256:bbea29057f25d9543e6a96a8e3cc7c7c937206d20eab2323f478fdb2469d536d
Status: Downloaded newer image for httpd:latest
70af3lf25a0b48b970f188df783c7b28405a71950c6a9644a6be8c48bf60d84e
pushpak@osboxes:-$ sudo apt install curl -y
[sudo] password for pushpak:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
curl is already the newest version (7.81.0-lubuntu1.18).
0 upgraded, 0 newly installed, 0 to remove and 598 not upgraded.
pushpak@osboxes:-$ curl http://localhost:9000
<a href="http://localhost:9000">http://localhost:9000</a>
<a href="http://localhost:90000">http://localhost:9000</a>
<a href="http://localhost:90000">http://localhost:9000</a>
<a
```