

# Class Assignment / Homework I

## Part 1: Working with your own Git repository

1. Create a GitHub account. Create an SSH key pair and add it to GitHub. Alternatively, create a personal access token.

The screenshot shows the GitHub profile of user **ristov663**. The profile includes a circular profile picture of a man, the name **Bojan Ristov**, and the username **ristov663** with the handle **he/him**. The bio states: "Student at Faculty of Computer Science and Engineering". Below the bio is an "Edit profile" button. The "Popular repositories" section displays four repositories, all with a red dot indicating they are HTML files:

- ristov663** (Public)
- ristov211151** (Public)
- ristov211151.github.io** (Public)
- ristov663.github.io** (Public)

The "4 contributions in the last year" section shows a calendar grid for 2024. Contributions are marked with green squares on September 1st, October 1st, and February 1st. The "Activity overview" section shows a contribution to the repository **ristov663/OnlineArtGallery**. The "Code review" section is empty.

## 2. Create a new GitHub repository and clone it locally.

The screenshot shows a GitHub repository page for 'KIII\_211151' by user 'ristov663'. The repository is public and has 1 branch and 0 tags. The main branch is 'main'. The repository has 3 commits, the latest being 'ristov663 Update READMEmd' 9d978a6 - now. The repository has 0 stars, 1 watching, and 0 forks. The repository description is 'No description, website, or topics provided.' The repository has a README file. The repository has a logo for 'Ss. Cyril and Methodius' University in Skopje, Faculty of Computer Science and Engineering.

The screenshot shows a terminal window with the following commands and output:

```
ubuntu $ git clone https://github.com/ristov663/KIII_211151
Cloning into 'KIII_211151'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (9/9), 2.79 KiB | 1.39 MiB/s, done.
ubuntu $ cd KIII_211151/
ubuntu $ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ubuntu $
ubuntu $
```

## 3. Work locally to add new content, stage the files, make a commit, and push the changes to GitHub.

The screenshot shows a terminal window with the following commands and output:

```
ubuntu $
ubuntu $ echo "This is second README file in this repo added locally" > README2
ubuntu $ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  README2

nothing added to commit but untracked files present (use "git add" to track)
ubuntu $ git add README2
ubuntu $ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
  new file:   README2
```

```
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   README2

ubuntu $ git commit -m "First commit"


*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'root@ubuntu.(none)')
ubuntu $ git config --global user.email "ristovbojan663@gmail.com"
ubuntu $ git config --global user.name "Bojan Ristov"
ubuntu $ git commit -m "My first commit"
[main 4ee7b2d] My first commit
 1 file changed, 1 insertion(+)
 create mode 100644 README2
ubuntu $ git push
Username for 'https://github.com': ristov663
Password for 'https://ristov663@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 326 bytes | 326.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ristov663/KIII_211151
 9d978a6..4ee7b2d  main -> main
ubuntu $ █
```

 **KIII\_211151** Public

Pin

Unwatch 1

main

1 Branch


0 Tags

Go to file



t


Add file


<> Code

 **ristov663** My first commit

4ee7b2d · 3 minutes ago 4 Commits

 README.md	Update README.md	last week
 README2	My first commit	3 minutes ago




 README



#### 4. Create develop, test and production branches.

```
9d978a6..4ee7b2d main -> main
ubuntu $ git checkout -b develop
Switched to a new branch 'develop'
ubuntu $ git checkout -b test
Switched to a new branch 'test'
ubuntu $ git checkout -b production
Switched to a new branch 'production'
ubuntu $ git branch -a
  develop
  main
* production
  test
remotes/origin/HEAD -> origin/main
remotes/origin/main
ubuntu $ git log --oneline --decorate --graph --all
* 4ee7b2d (HEAD -> production, origin/main, origin/HEAD, test, main, develop) My first commit
* 9d978a6 Update README.md
* fa56688 Update README.md
* 12133cf Initial commit
ubuntu $
```

#### 5. Make several changes and commit to the develop branch, then merge it into the other two branches. Push the changes to GitHub.

K L L K C O D A    PLUS Areas

Ubuntu

RESTART SCENARIOS FEEDBACK

Editor Tab 1 +

remotes/origin/main  
ubuntu \$ git log --oneline --decorate --graph --all  
\* 4ee7b2d (HEAD -> production, origin/main, origin/HEAD, test, main, develop) My first commit  
\* 9d978a6 Update README.md  
\* fa56688 Update README.md  
\* 12133cf Initial commit  
ubuntu \$ git checkout develop  
Switched to branch 'develop'  
ubuntu \$ git branch -a  
\* develop  
 main  
 production  
 test  
remotes/origin/HEAD -> origin/main  
remotes/origin/main  
ubuntu \$ nano DevelopFile.txt  
ubuntu \$ git status  
On branch develop  
Untracked files:  
 (use "git add <file>..." to include in what will be committed)  
 DevelopFile.txt  
  
nothing added to commit but untracked files present (use "git add" to track)  
ubuntu \$ git add DevelopFile.txt  
ubuntu \$ git status  
On branch develop  
Changes to be committed:  
 (use "git restore --staged <file>..." to unstage)  
 new file: DevelopFile.txt  
  
ubuntu \$ git merge test  
Already up to date.  
ubuntu \$ git merge production  
Already up to date.  
ubuntu \$ git checkout main  
A DevelopFile.txt  
Switched to branch 'main'  
Your branch is up to date with 'origin/main'.

[RESTART](#)[SCENARIOS](#)[FEEDBACK](#)

```
ubuntu $ git checkout develop
A       DevelopFile.txt
Switched to branch 'develop'
ubuntu $ git merge test
Already up to date.
ubuntu $ git merge production
Already up to date.
ubuntu $ git commit -m "My second commit"
[develop e331cce] My second commit
1 file changed, 2 insertions(+)
create mode 100644 DevelopFile.txt
ubuntu $ git push
fatal: The current branch develop has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin develop

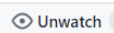
ubuntu $ git push --set-upstream origin develop
Username for 'https://github.com': ristov663
Password for 'https://ristov663@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 361 bytes | 361.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:   https://github.com/ristov663/KIII_211151/pull/new/develop
remote:
To https://github.com/ristov663/KIII_211151
 * [new branch]      develop -> develop
Branch 'develop' set up to track remote branch 'develop' from 'origin'.
ubuntu $
```

**KIII\_211151**

Public



Pin



Unwatch

1

main

2 Branches 0 Tags

Go to file

Add file

&lt;&gt; Code

**ristov663** Merge pull request #1 from ristov663/develop

1e1390e · now

6 Commits




DevelopFile.txt	My second commit	4 minutes ago
README.md	Update README.md	last week
README2	My first commit	24 minutes ago

README



"Ss. Cyril and Methodius" University in Skopje  
**FACULTY OF COMPUTER  
SCIENCE AND ENGINEERING**

- When you're done with the branch, merge it to main. Then, commit and push to GitHub.

K L L K C O D A    PLUS


Ubuntu

RESTART SCENARIOS FEEDBACK


Editor Tab1 +




```
ubuntu $
ubuntu $ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
ubuntu $ git merge test
Already up to date.
ubuntu $ git merge develop
Updating 4ee7b2d..e331cce
Fast-forward
 DevelopFile.txt | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 DevelopFile.txt
ubuntu $ git merge production
Already up to date.
ubuntu $ git branch -a
  develop
* main
  production
  test
  remotes/origin/HEAD -> origin/main
  remotes/origin/develop
  remotes/origin/main
ubuntu $ git commit -m "My third commit"
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
ubuntu $ git push
Username for 'https://github.com': ristov663
Password for 'https://ristov663@github.com':
To https://github.com/ristov663/KIII_211151
```




 ristov663 / KIII\_211151

[code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)




 **KIII\_211151** Public Pin Unwatch 1

 main  2 Branches  0 Tags

 Add file  Code

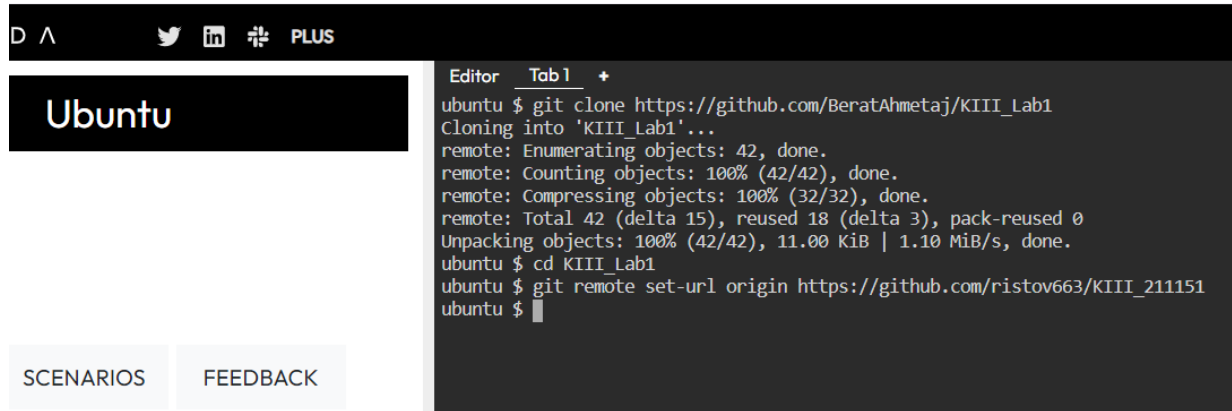
 **ristov663** Merge pull request #1 from ristov663/develop  1e1390e · 4 minutes ago  6 Commits

My second commit

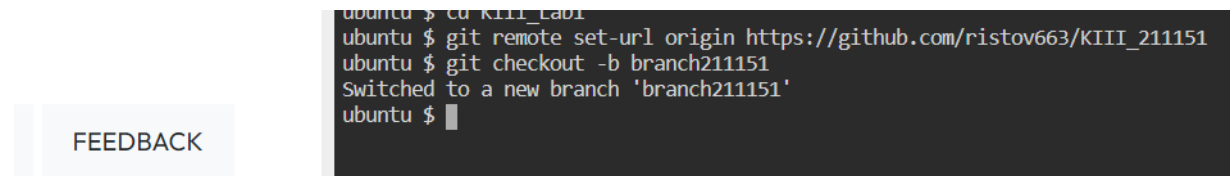
 DevelopFile.txt	My second commit	9 minutes ago
 README.md	Update README.md	last week
 README2	My first commit	29 minutes ago

## Part 2: Contributing to another Git repository on GitHub.

## 7. Fork a colleague's GitHub repository.



## 8. Create a new branch for a new feature.



## 9. Make changes, commit and push the changes to your GitHub repo.

Ubuntu

SCENARIOS

FEEDBACK

```
Editor  Tab1  +
ubuntu $ echo "This is a sample file." > sample.txt
ubuntu $
ubuntu $ git status
On branch branch211151
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        sample.txt

nothing added to commit but untracked files present (use "git add" to track)
ubuntu $ git add sample.txt
ubuntu $ git status
On branch branch211151
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   sample.txt

ubuntu $ git commit -m "Added a sample file"

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'root@ubuntu.(none)')
ubuntu $ ^C
ubuntu $ git config --global user.email "ristovbojan663@gmail.com"
ubuntu $ git config --global user.name "Bojan Ristov"
ubuntu $ git commit -m "Added a sample file"
[branch211151 526bf5f] Added a sample file
 1 file changed, 1 insertion(+)
 create mode 100644 sample.txt
ubuntu $ git push origin branch211151
Username for 'https://github.com': ristov663
Password for 'https://ristov663@github.com':
Enumerating objects: 45, done.
Compressing objects: 100% (37/37), done.
Writing objects: 100% (45/45), 11.15 KiB | 2.79 MiB/s, done.
Total 45 (delta 16), reused 0 (delta 0)
remote: Resolving deltas: 100% (16/16), done.
remote:
remote: Create a pull request for 'branch211151' on GitHub by visiting:
remote:   https://github.com/ristov663/KIII_211151/pull/new/branch211151
remote:
To https://github.com/ristov663/KIII_211151
 * [new branch]      branch211151 -> branch211151
ubuntu $
```





10. When you're done, make a Pull Request with the new feature, via GitHub's website.

```
ubuntu $ git push origin branch211151
Username for 'https://github.com': ristov663
Password for 'https://ristov663@github.com':
Everything up-to-date
ubuntu $
```

### Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).

 base: main ← compare: branch211151



There isn't anything to compare.

main and branch211151 are entirely different commit histories.

Showing 1 changed file with 1 addition and 0 deletions. Split Unified

1 sample.txt

... @@ -0,0 +1 @@  
1 + This is a sample file.

11. Ask your colleague to merge the Pull Request and close the issue.

Немав одговор од колегата во преостанатото време до прикачување на домашната работа, па истата ја прикачив без 11тата точка.

**Изработил:**  
**Бојан Ристов (211151)**