

Національний технічний університет України
«Київський політехнічний інститут імені Ігоря Сікорського»
Факультет інформатики та обчислювальної техніки
Кафедра інформаційних систем та технологій

Лабораторна робота №1

з дисципліни <<Технології розробки програмного забезпечення>>

Тема <<Системи контролю версій. Git.>>

Виконав:

студент ІА-23

Содолиський Вадим

Перевірив:

Мягкий М. Ю.

Київ 2024

Тема: Системи контролю версій. Git.

Хід роботи

```
C:\Users\vadim\Desktop\test>git checkout branch1
Switched to branch 'branch1'

C:\Users\vadim\Desktop\test>echo 123 > test.txt

C:\Users\vadim\Desktop\test>git add .

C:\Users\vadim\Desktop\test>git commit -m 'testtesttest'
[branch1 f596856] 'testtesttest'
 1 file changed, 1 insertion(+)
 create mode 100644 test.txt

C:\Users\vadim\Desktop\test>git rebase main
Auto-merging 1.txt
CONFLICT (add/add): Merge conflict in 1.txt
error: could not apply 4a913b4... 'test1'
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort"
hint: Disable this message with "git config advice.mergeConflict false"
Could not apply 4a913b4... 'test1'

C:\Users\vadim\Desktop\test>git status
interactive rebase in progress; onto 41a31e7
Last command done (1 command done):
  pick 4a913b4 'test1'
Next command to do (1 remaining command):
  pick f596856 'testtesttest'
(use "git rebase --edit-todo" to view and edit)
You are currently rebasing branch 'branch1' on '41a31e7'.
(fix conflicts and then run "git rebase --continue")
(use "git rebase --skip" to skip this patch)
(use "git rebase --abort" to check out the original branch)

Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
  (use "git add <file>..." to mark resolution)
    both added:      1.txt

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\vadim\Desktop\test>git add .

C:\Users\vadim\Desktop\test>git rebase --continue
[detached HEAD fa4c4cc] 'test1'
 1 file changed, 2 insertions(+)
Successfully rebased and updated refs/heads/branch1.

C:\Users\vadim\Desktop\test>git checkout branch2
```

```
C:\Users\vadim\Desktop\test>git merge main
Auto-merging 2.txt
CONFLICT (add/add): Merge conflict in 2.txt
Automatic merge failed; fix conflicts and then commit the result.

C:\Users\vadim\Desktop\test>git add .

C:\Users\vadim\Desktop\test>git merge --continue
[branch2 3be44e5] Merge branch 'main' into branch2

C:\Users\vadim\Desktop\test>git checkout branch3
Switched to branch 'branch3'

C:\Users\vadim\Desktop\test>git log --oneline main
41a31e7 (main) 'adding'
995db82 'testmain'
01b9570 'first'

C:\Users\vadim\Desktop\test>git log
commit 201c5311880b71307e05bb6b49b28e96e620c09a (HEAD -> branch3)
Author: SodolynskyiVadym <vadimsodolinskij@gmail.com>
Date: Thu Oct 10 13:26:37 2024 +0300

    'third'

commit 01b9570a8eb818061869ef0d9adb096f07974ed5
Author: SodolynskyiVadym <vadimsodolinskij@gmail.com>
Date: Thu Oct 10 13:09:30 2024 +0300

    'first'

C:\Users\vadim\Desktop\test>git cherry-pick 995db82 41a31e7
[branch3 7677bcc] 'testmain'
Date: Thu Oct 10 13:28:21 2024 +0300
1 file changed, 1 insertion(+)
create mode 100644 main.txt
Auto-merging 3.txt
CONFLICT (add/add): Merge conflict in 3.txt
error: could not apply 41a31e7... 'adding'
hint: After resolving the conflicts, mark them with
hint: "git add/rm <paths>", then run
hint: "git cherry-pick --continue".
hint: You can instead skip this commit with "git cherry-pick --skip".
hint: To abort and get back to the state before "git cherry-pick",
hint: run "git cherry-pick --abort".
hint: Disable this message with "git config advice.mergeConflict false"

C:\Users\vadim\Desktop\test>git add .
```

```

C:\Users\vadim\Desktop\test>git add .

C:\Users\vadim\Desktop\test>git cherry-pick --continue
[branch3 8cbe208] 'adding'
Date: Thu Oct 10 13:30:58 2024 +0300
3 files changed, 3 insertions(+)
create mode 100644 1.txt
create mode 100644 2.txt

C:\Users\vadim\Desktop\test>git log --oneline
8cbe208 (HEAD -> branch3) 'adding'
7677bcc 'testmain'
201c531 'third'
01b9570 'first'

C:\Users\vadim\Desktop\test>git log --oneline -all
error: switch '-l' expects a numerical value

C:\Users\vadim\Desktop\test>git log --oneline --all
8cbe208 (HEAD -> branch3) 'adding'
7677bcc 'testmain'
3be44e5 (branch2) Merge branch 'main' into branch2
60bea61 (branch1) 'testtesttest'
fa4c4cc 'test1'
41a31e7 (main) 'adding'
a55ba1d 'test2'
995db82 'testmain'
201c531 'third'
01b9570 'first'

C:\Users\vadim\Desktop\test>git log --oneline --all --graph
* 8cbe208 (HEAD -> branch3) 'adding'
* 7677bcc 'testmain'
* 201c531 'third'
| * 3be44e5 (branch2) Merge branch 'main' into branch2
| |
| * | a55ba1d 'test2'
|/ /
| | * 60bea61 (branch1) 'testtesttest'
| | * fa4c4cc 'test1'
| | /
| * 41a31e7 (main) 'adding'
| * 995db82 'testmain'
|/
* 01b9570 'first'

C:\Users\vadim\Desktop\test>

```

Висновок: я навчився користуватися системою контролю версій Git.