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Кафедра информационных систем и цифровых технологий

Дисциплина «Выпуск и сопровождение программных продуктов»

Отчет к лабораторной работе № 5-11

«Работа с Git»

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Орёл, 2025г

**Работа №1:**

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git init

hint: Using 'master' as the name for the initial branch. This default branch name

hint: is subject to change. To configure the initial branch name to use in all

hint: of your new repositories, which will suppress this warning, call:

hint:

hint: git config --global init.defaultBranch <name>

hint:

hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and

hint: 'development'. The just-created branch can be renamed via this command:

hint:

hint: git branch -m <name>

Initialized empty Git repository in /mnt/c/Users/ivan/Desktop/VIV/.git/

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git config user.name "Иван"

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git config user.email [i@email.com](mailto:i@email.com)

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ touch my\_first\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add .

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "first"

[master (root-commit) 8c1400d] first

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 my\_first\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "test row" >> my\_first\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ touch my\_second\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add .

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "second"

[master ac395de] second

2 files changed, 1 insertion(+)

create mode 100644 my\_second\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$

Работа №2:

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ mkdir temp

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ mkdir log

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ cd log

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV/log$ touch main.html

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV/log$ touch some.tmp

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV/log$ cd ..

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ touch .gitignore

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "temp/" >> .gitignore

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "log/\*.tmp" >> .gitignore

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add .

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "add gitignore"

[master e66fd4b] add gitignore

2 files changed, 2 insertions(+)

create mode 100644 .gitignore

create mode 100644 log/main.html

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "row to index" >> my\_first\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add .

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "row to index" >> my\_first\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git diff

diff --git a/my\_first\_file.txt b/my\_first\_file.txt

index 817a7a6..eef60d2 100644

--- a/my\_first\_file.txt

+++ b/my\_first\_file.txt

@@ -1,2 +1,3 @@

test row

row to index

+row to index

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git rm my\_first\_file.txt -f

rm 'my\_first\_file.txt'

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git mv my\_second\_file.txt my\_first\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "Rename my\_second\_file.txt to my\_first\_file.txt"

[master b79456a] Rename my\_second\_file.txt to my\_first\_file.txt

2 files changed, 1 deletion(-)

delete mode 100644 my\_second\_file.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$

**Работа №3:**

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git log --since="1 month ago" --pretty=format:"%h %s" --name-only

3c59425 Resolve conflict using vimdiff

bc630cb My fix in files 1.txt and 3.txt

1.txt

3.txt

367c05d Fix files 1.txt and 3.txt

1.txt

3.txt

be6677f Merge branch 'new\_branch'

58eff14 Add new row to 1.txt file

1.txt

69af3da Add in\_branch.txt file

in\_branch.txt

f1659eb add 1.txt and 3.txt

1.txt

3.txt

b79456a Rename my\_second\_file.txt to my\_first\_file.txt

my\_first\_file.txt

my\_second\_file.txt

e66fd4b add gitignore

.gitignore

log/main.html

ac395de second

my\_first\_file.txt

my\_second\_file.txt

8c1400d first

my\_first\_file.txt

**Работа №4:**

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ touch 1.txt 2.txt 3.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add 1.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "add 1.txt file"

[master a1531b9] add 1.txt file

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 1.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add 2.txt 3.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git reset 2.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit --amend -m "add 1.txt and 3.txt"

[master f1659eb] add 1.txt and 3.txt

Date: Fri Oct 31 12:17:52 2025 +0300

2 files changed, 0 insertions(+), 0 deletions(-)

create mode 100644 1.txt

create mode 100644 3.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git tag -a v0.01 -m "Version 0.01 release"

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch first-commit $(git rev-list --max-parents=0 HEAD)

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$

**Работа №5:**

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch my\_first\_branch

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git checkout my\_first\_branch

Switched to branch 'my\_first\_branch'

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ touch in\_branch.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add in\_branch.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "Add in\_branch.txt file"

[my\_first\_branch 69af3da] Add in\_branch.txt file

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 in\_branch.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git checkout master

Switched to branch 'master'

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git checkout -b new\_branch

Switched to a new branch 'new\_branch'

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "new row in 1.txt file" >> 1.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add 1.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "Add new row to 1.txt file"

[new\_branch 58eff14] Add new row to 1.txt file

1 file changed, 1 insertion(+)

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git checkout master

Switched to branch 'master'

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git merge my\_first\_branch

Updating f1659eb..69af3da

Fast-forward

in\_branch.txt | 0

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 in\_branch.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git merge new\_branch

Merge made by the 'ort' strategy.

1.txt | 1 +

1 file changed, 1 insertion(+)

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch -d my\_first\_branch

Deleted branch my\_first\_branch (was 69af3da).

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch -d new\_branch

Deleted branch new\_branch (was 58eff14).

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch branch\_1

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch branch\_2

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git checkout branch\_1

Switched to branch 'branch\_1'

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "fix in 1.txt" > 1.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "fix in 3.txt" > 3.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add 1.txt 3.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "Fix files 1.txt and 3.txt"

[branch\_1 367c05d] Fix files 1.txt and 3.txt

2 files changed, 2 insertions(+), 1 deletion(-)

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git checkout branch\_2

Switched to branch 'branch\_2'

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "My fix in 1.txt" > 1.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "My fix in 3.txt" > 3.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add 1.txt 3.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "My fix in files 1.txt and 3.txt"

[branch\_2 bc630cb] My fix in files 1.txt and 3.txt

2 files changed, 2 insertions(+), 1 deletion(-)

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git checkout branch\_1

Switched to branch 'branch\_1'

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git merge branch\_2

Auto-merging 1.txt

CONFLICT (content): Merge conflict in 1.txt

Auto-merging 3.txt

CONFLICT (content): Merge conflict in 3.txt

Automatic merge failed; fix conflicts and then commit the result.

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git mergetool --tool=vimdiff 3.txt

Merging:

3.txt

Normal merge conflict for '3.txt':

{local}: modified file

{remote}: modified file

4 files to edit

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git add 1.txt 3.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git commit -m "Resolve conflict using vimdiff"

[branch\_1 3c59425] Resolve conflict using vimdiff

**Работа №6**

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch --merged master

first-commit

master

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch --no-merged master

\* branch\_1

branch\_2

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git branch -d first-commit

Deleted branch first-commit (was 8c1400d).

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git checkout -b work

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ echo "some changes" >> 1.txt

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git stash

Saved working directory and index state WIP on work: 3c59425 Resolve conflict using vimdiff

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git stash pop --index

On branch work

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: 1.txt

Untracked files:

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

.1.txt.swp

2.txt

3.txt.orig

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

Dropped refs/stash@{0} (c409a2bddb9a778ecdfe265bae64415454c4f7ad)

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git stash branch new-work-branch

Switched to a new branch 'new-work-branch'

On branch new-work-branch

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: 1.txt

Untracked files:

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

.1.txt.swp

2.txt

3.txt.orig

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

Dropped refs/stash@{0} (b9ff4551ed4f68d00969e3a1ee582188fa62050b)

**Работа №7**

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ ssh-keygen -t ed25519 -C "vasileniyaivanka@mail.ru"

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ ssh-add ~/.ssh/id\_ed25519

Could not open a connection to your authentication agent.

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ eval "$(ssh-agent -s)"

Agent pid 271

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ ssh-add ~/.ssh/id\_ed25519

Identity added: /home/ivan/.ssh/id\_ed25519 (vasileniyaivanka@mail.ru)

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ cat ~/.ssh/id\_ed25519.pub

ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIDObux4zIzeeYdxEKM5oh8UyQQ0p2m07jewcXTz8qift vasileniyaivanka@mail.ru

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ ssh -T git@github.com

Hi kuskas112! You've successfully authenticated, but GitHub does not provide shell access.

ivan@DESKTOP-KP65LSQ:/mnt/c/Users/ivan/Desktop/VIV$ git clone git@github.com:Xeeesh/RepForLabs.git

Cloning into 'RepForLabs'...

remote: Enumerating objects: 8, done.

remote: Counting objects: 100% (8/8), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 8 (delta 0), reused 5 (delta 0), pack-reused 0 (from 0)

Receiving objects: 100% (8/8), done.