

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики и теории вероятностей

ОТЧЕТ

ПО ЛАБОРАТОРНОЙ РАБОТЕ № 1.

дисциплина: Математическое моделирование

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Группа: НПИбд-01-18

МОСКВА

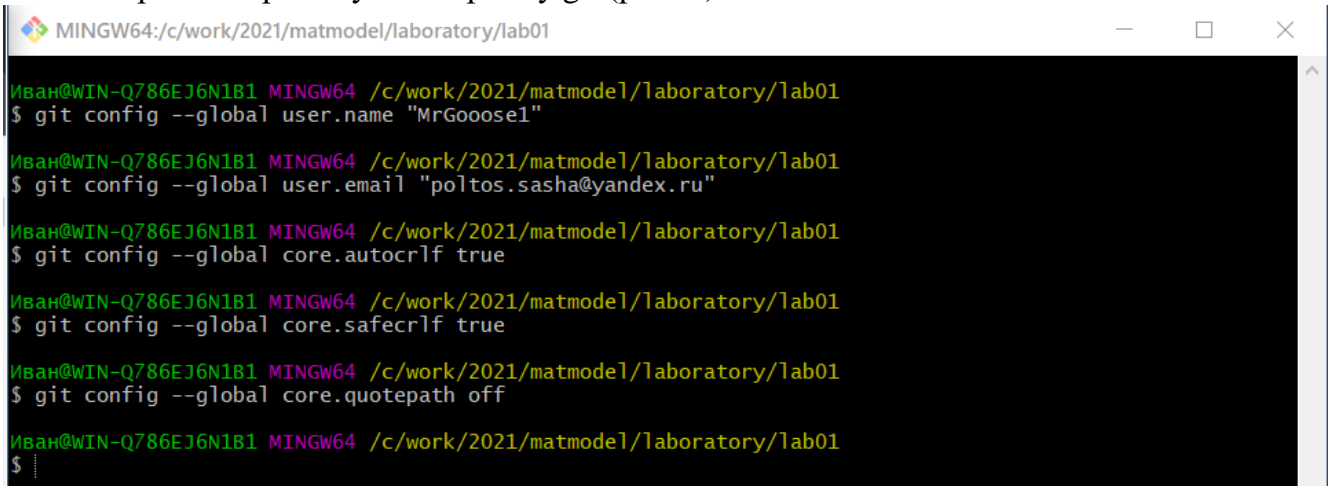
2021 г.

Цель.

Приобрести навыки работы с git.

Ход выполнения работы.

1. Провёл первичную настройку git (рис. 1).



```
MINGW64:/c/work/2021/matmodel/laboratory/lab01

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01
$ git config --global user.name "MrGooose1"

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01
$ git config --global user.email "poltos.sasha@yandex.ru"

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01
$ git config --global core.autocrlf true

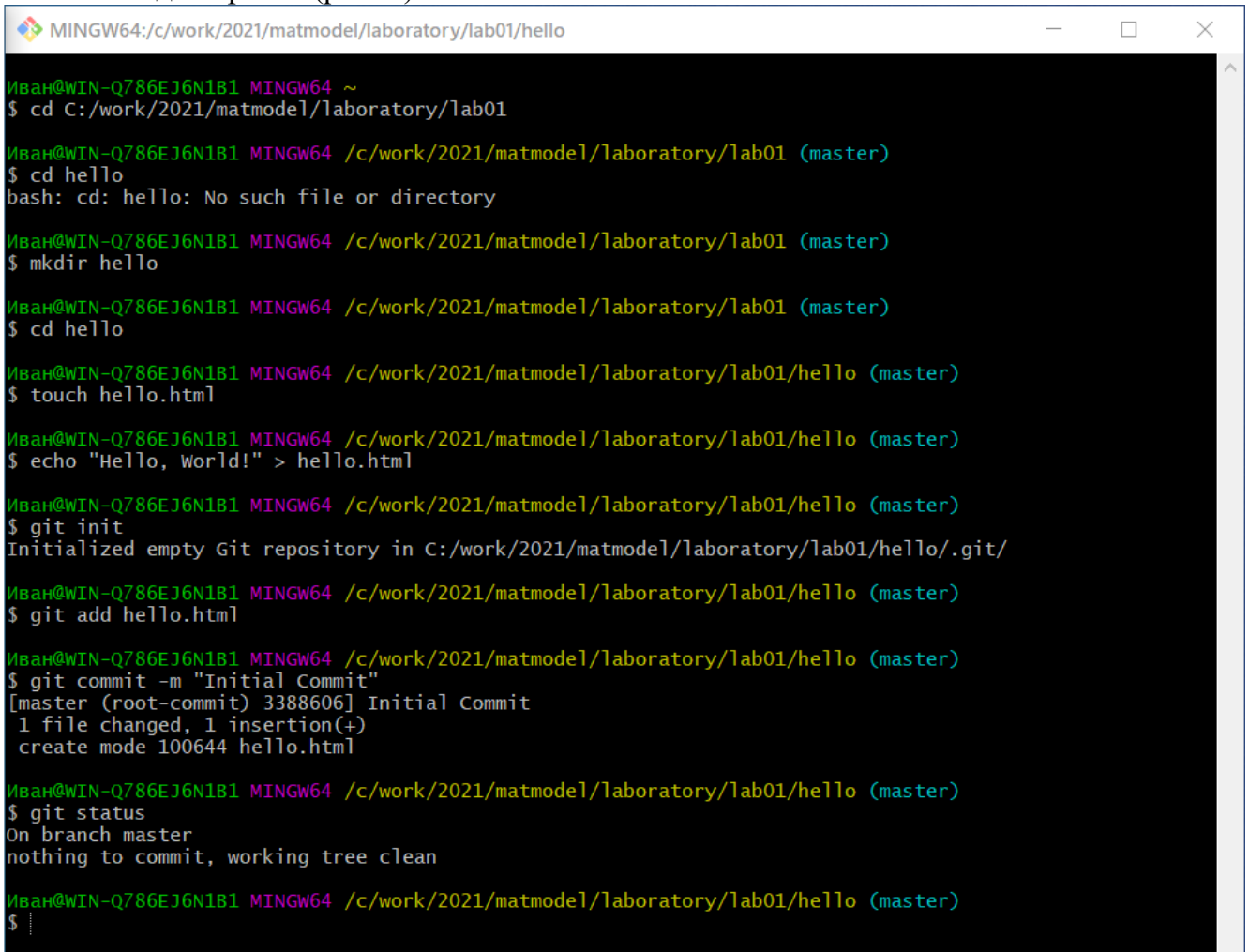
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01
$ git config --global core.safecrlf true

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01
$ git config --global core.quotepath off

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01
$
```

Рис. 1

2. Создал проект (рис. 2).



```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello

Иван@WIN-Q786EJ6N1B1 MINGW64 ~
$ cd C:/work/2021/matmodel/laboratory/lab01

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01 (master)
$ cd hello
bash: cd: hello: No such file or directory

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01 (master)
$ mkdir hello

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01 (master)
$ cd hello

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ touch hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ echo "Hello, World!" > hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git init
Initialized empty Git repository in C:/work/2021/matmodel/laboratory/lab01/hello/.git/

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit -m "Initial Commit"
[master (root-commit) 3388606] Initial Commit
1 file changed, 1 insertion(+)
create mode 100644 hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
nothing to commit, working tree clean

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$
```

Рис. 2

3. Изменил страницу «Hello, World» и провёл коммит изменений (рис. 3).

```

MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
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:   hello.html

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

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit
[master 208a8ce] Added h1 tag
1 file changed, 1 insertion(+), 1 deletion(-)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
nothing to commit, working tree clean

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$
  
```

Рис. 3

4. Добавил стандартные теги страницы (рис. 4).

```

C:\work\2021\matmodel\laboratory\lab01\hello\hello.html - Notepad++
Файл Правка Поиск Вид Кодировки Синтаксис Опции Инструменты Макросы Запуск Плагины Вкладки ?
hello.html
1 <html>
2
3 </head>
4 </head>
5 <body>
6 <h1>Hello, World!</h1>
7 </body>
8 </html>

Hype length: 74 lines: 8 Ln: 5 Col: 9 Sel: 0|0 Unix (LF) UTF-8 INS

MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit
[master 208a8ce] Added h1 tag
1 file changed, 1 insertion(+), 1 deletion(-)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
nothing to commit, working tree clean

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

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:   hello.html

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

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add .

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit -m "Added standard HTML page tags"
[master 4135579] Added standard HTML page tags
1 file changed, 5 insertions(+), 1 deletion(-)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
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:   hello.html

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

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add .

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit -m "Added HTML header"
[master 0d8f07b] Added HTML header
1 file changed, 2 insertions(+), 1 deletion(-)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$
  
```

Рис. 4

5. Просмотрел историю(рис. 5).

```

MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello
commit 0d8f07b0b24f396c55a582ff5295dac89ecacfb (HEAD -> master)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:52:06 2021 +0300

    Added HTML header

commit 4135579d47e0e73beffac08f2ed08099b76042c3
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:51:28 2021 +0300

    Added standard HTML page tags

commit 208a8ce668f0dc6b2cf1b37750aefe41a8a2e110
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:41:30 2021 +0300

    Added h1 tag

commit 3388606299118f8214dfb776657cbe9e1ddce4e7
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:37:08 2021 +0300

    Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log --pretty=oneline
0d8f07b0b24f396c55a582ff5295dac89ecacfb (HEAD -> master) Added HTML header
4135579d47e0e73beffac08f2ed08099b76042c3 Added standard HTML page tags
208a8ce668f0dc6b2cf1b37750aefe41a8a2e110 Added h1 tag
3388606299118f8214dfb776657cbe9e1ddce4e7 Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log --pretty=oneline --max-count=2
0d8f07b0b24f396c55a582ff5295dac89ecacfb (HEAD -> master) Added HTML header
4135579d47e0e73beffac08f2ed08099b76042c3 Added standard HTML page tags

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log --pretty=oneline --since='5 minutes ago'
0d8f07b0b24f396c55a582ff5295dac89ecacfb (HEAD -> master) Added HTML header
4135579d47e0e73beffac08f2ed08099b76042c3 Added standard HTML page tags

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log --pretty=oneline --until='5 minutes ago'
208a8ce668f0dc6b2cf1b37750aefe41a8a2e110 Added h1 tag
3388606299118f8214dfb776657cbe9e1ddce4e7 Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log --pretty=oneline --author=<your name>
bash: syntax error near unexpected token `newline'

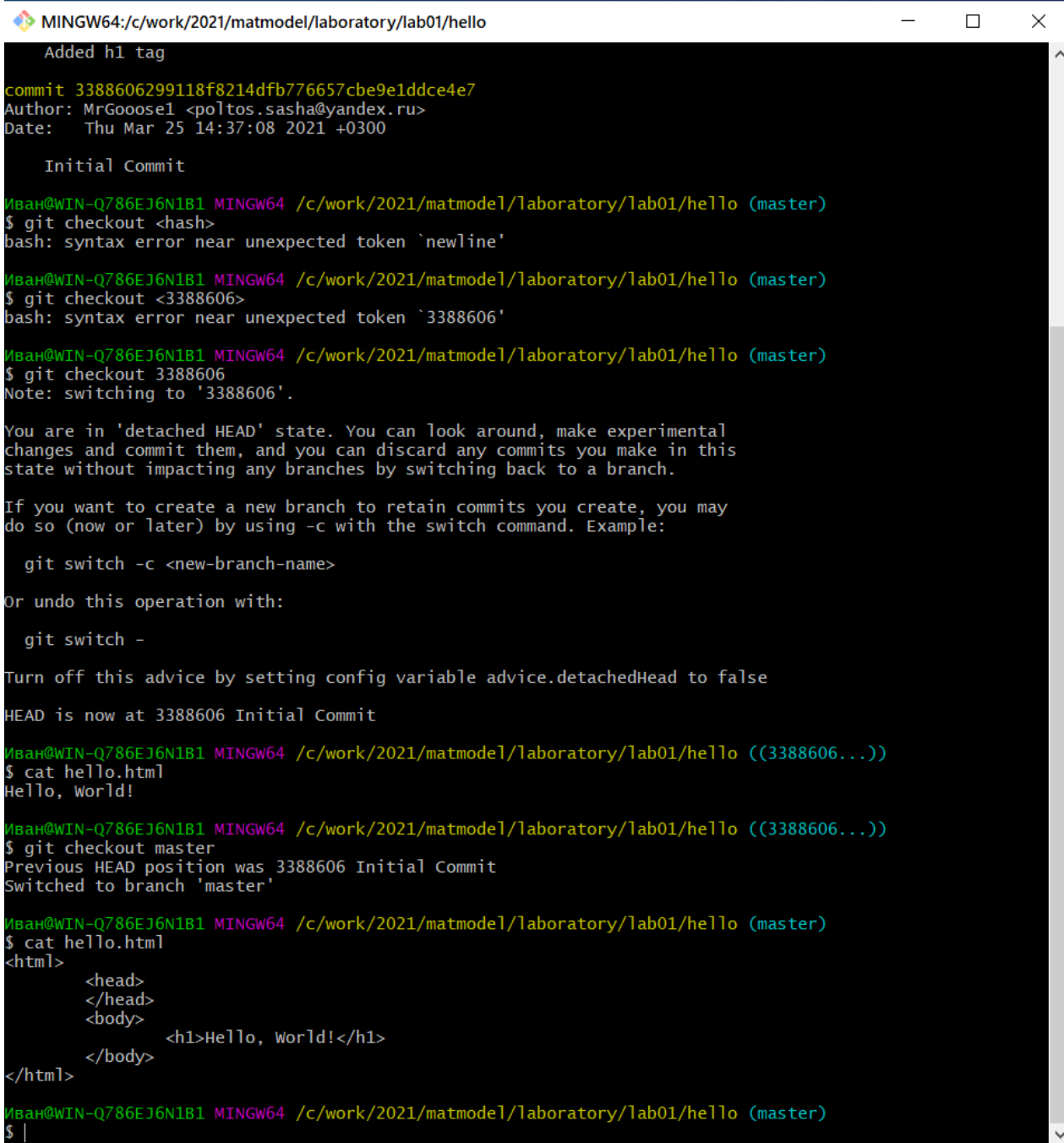
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log --pretty=oneline --all
0d8f07b0b24f396c55a582ff5295dac89ecacfb (HEAD -> master) Added HTML header
4135579d47e0e73beffac08f2ed08099b76042c3 Added standard HTML page tags
208a8ce668f0dc6b2cf1b37750aefe41a8a2e110 Added h1 tag
3388606299118f8214dfb776657cbe9e1ddce4e7 Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)

```

Рис. 5

6. Проверь получение старых версий (рис. 6).



```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello
Added h1 tag
commit 3388606299118f8214dfb776657cbe9e1ddce4e7
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:37:08 2021 +0300

Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git checkout <hash>
bash: syntax error near unexpected token `newline'

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git checkout <3388606>
bash: syntax error near unexpected token `3388606'

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git checkout 3388606
Note: switching to '3388606'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

    git switch -c <new-branch-name>

Or undo this operation with:

    git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 3388606 Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello ((3388606...))
$ cat hello.html
Hello, World!

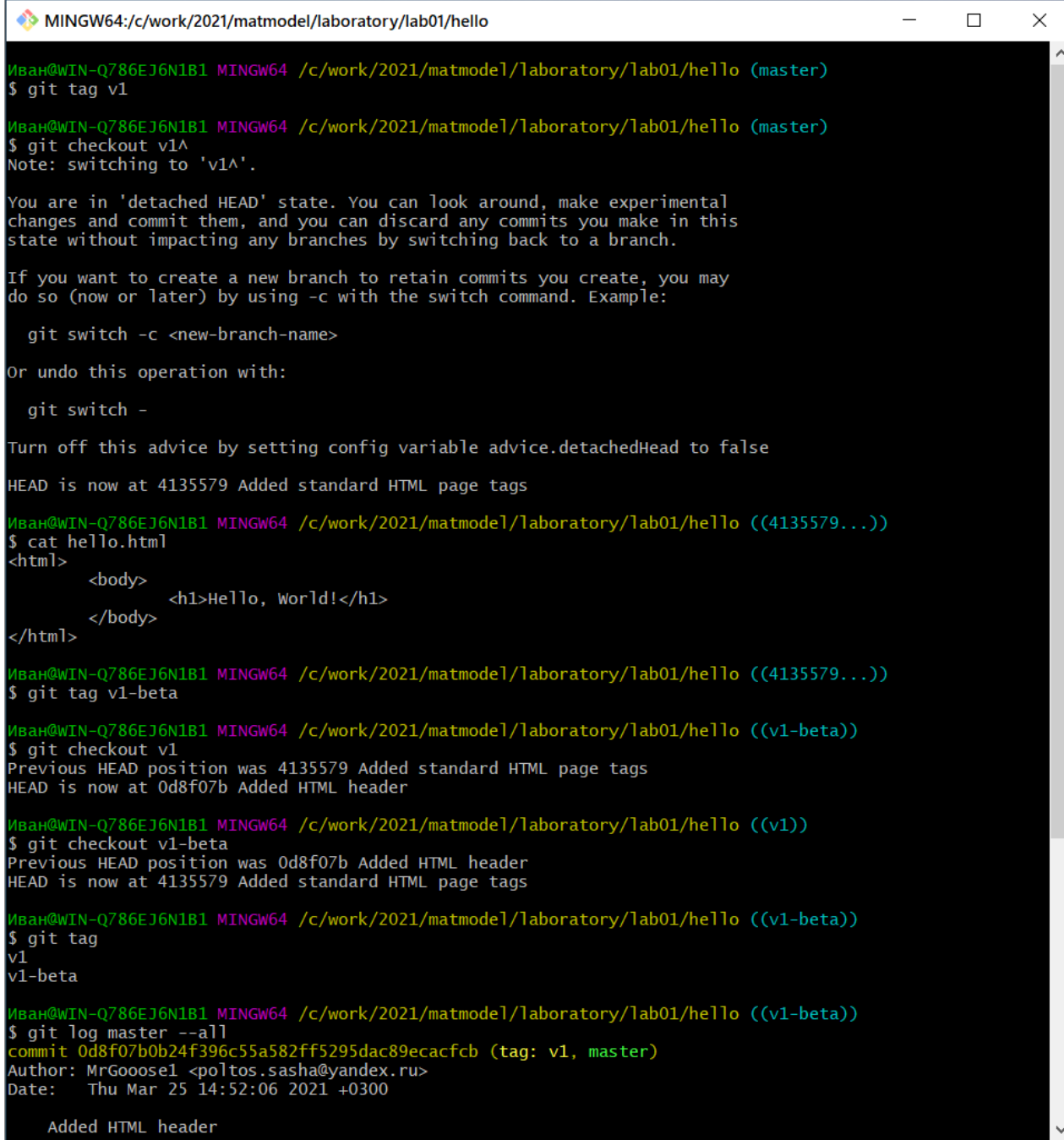
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello ((3388606...))
$ git checkout master
Previous HEAD position was 3388606 Initial Commit
Switched to branch 'master'

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ cat hello.html
<html>
  <head>
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ |
```

Рис. 6

7. Создал и провёл переключение и просмотр по тегам(рис. 7).



```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git tag v1
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git checkout v1^
Note: switching to 'v1^'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

    git switch -c <new-branch-name>

Or undo this operation with:

    git switch -

Turn off this advice by setting config variable advice.detachedHead to false
HEAD is now at 4135579 Added standard HTML page tags
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello ((4135579...))
$ cat hello.html
<html>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello ((4135579...))
$ git tag v1-beta
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello ((v1-beta))
$ git checkout v1
Previous HEAD position was 4135579 Added standard HTML page tags
HEAD is now at 0d8f07b Added HTML header
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello ((v1))
$ git checkout v1-beta
Previous HEAD position was 0d8f07b Added HTML header
HEAD is now at 4135579 Added standard HTML page tags
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello ((v1-beta))
$ git tag
v1
v1-beta
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello ((v1-beta))
$ git log master --all
commit 0d8f07b0b24f396c55a582ff5295dac89ecacfc (tag: v1, master)
Author: MrGoose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:52:06 2021 +0300

    Added HTML header
```

Рис. 7

8. Отменил локальные изменения (до индексации) (рис. 8).

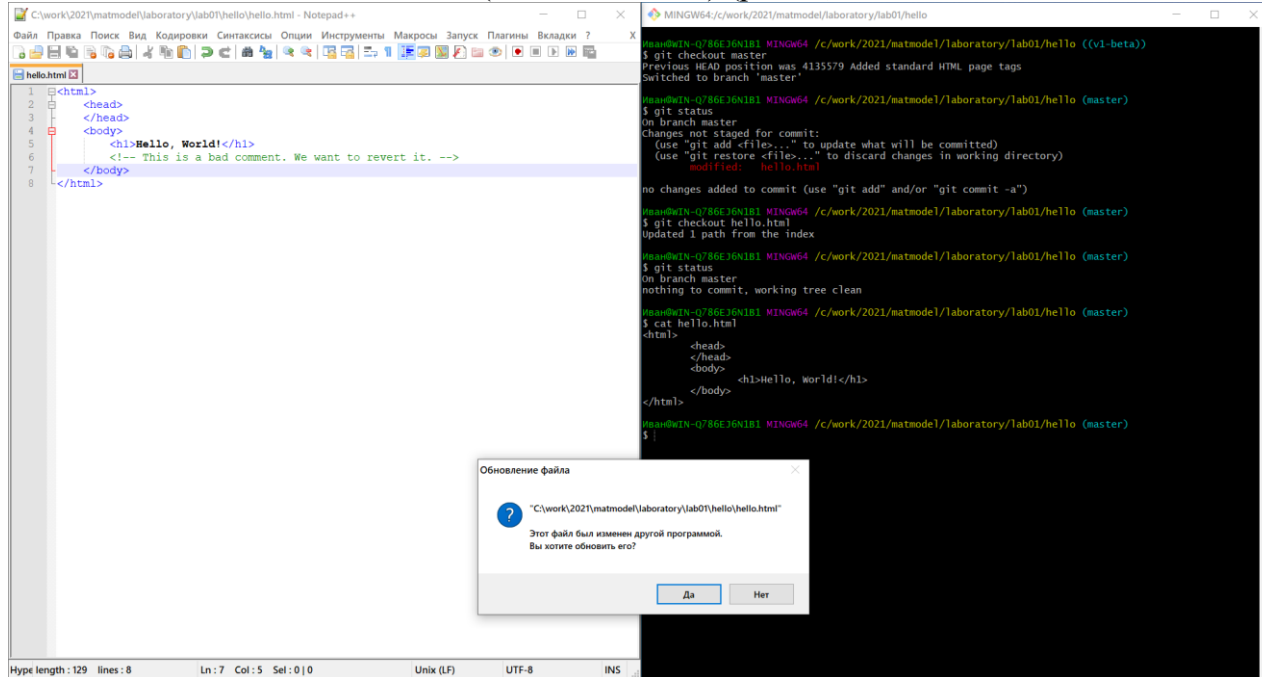


Рис. 8

9. Отменил проиндексированные изменения (перед коммитом) (рис. 9).

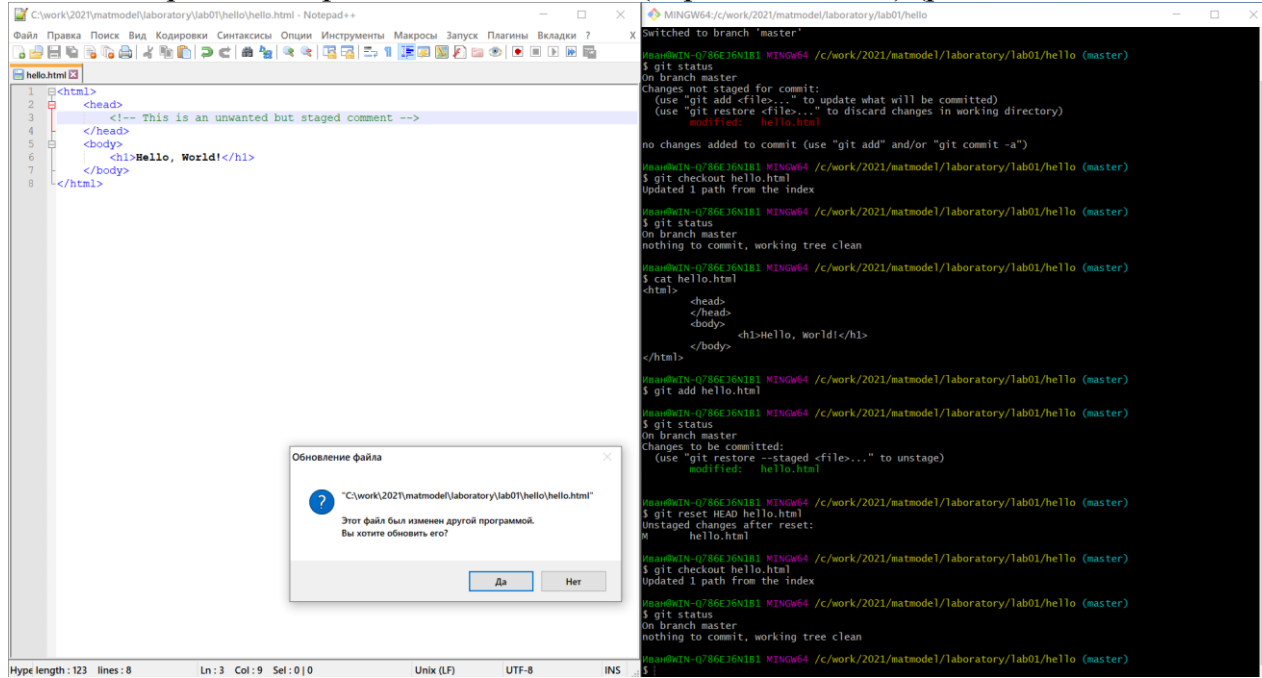


Рис. 9

10. Отмена коммитов (рис. 10).

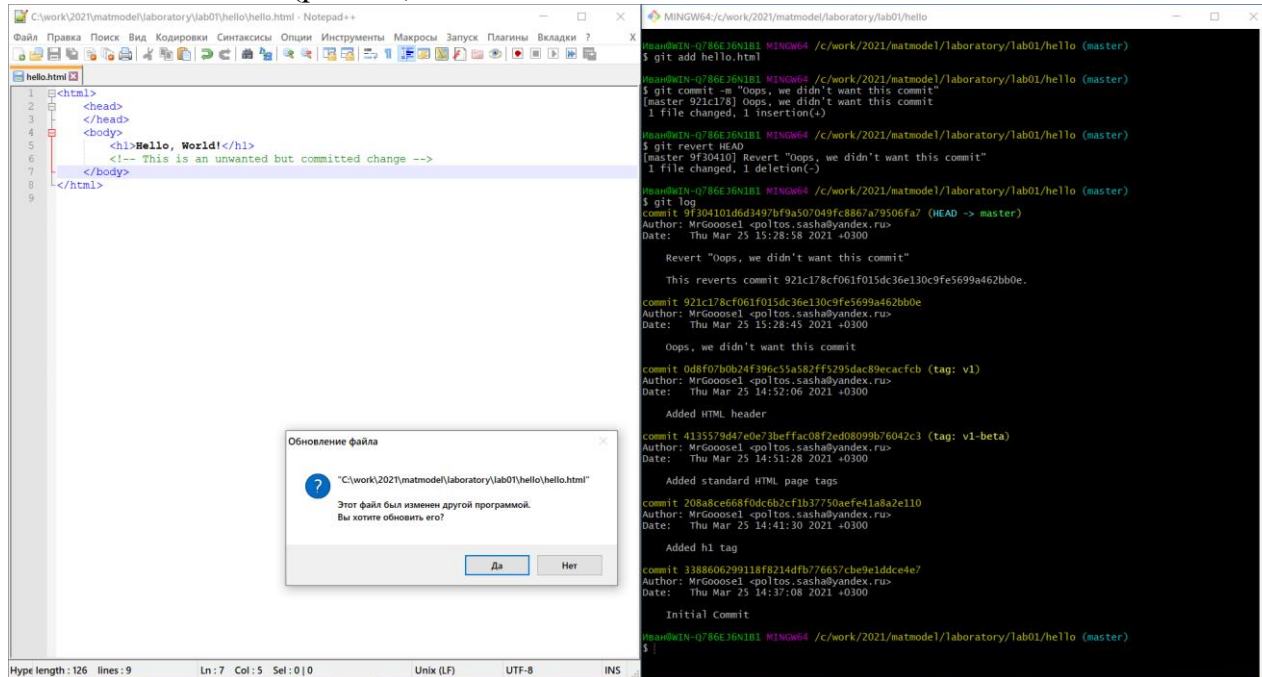
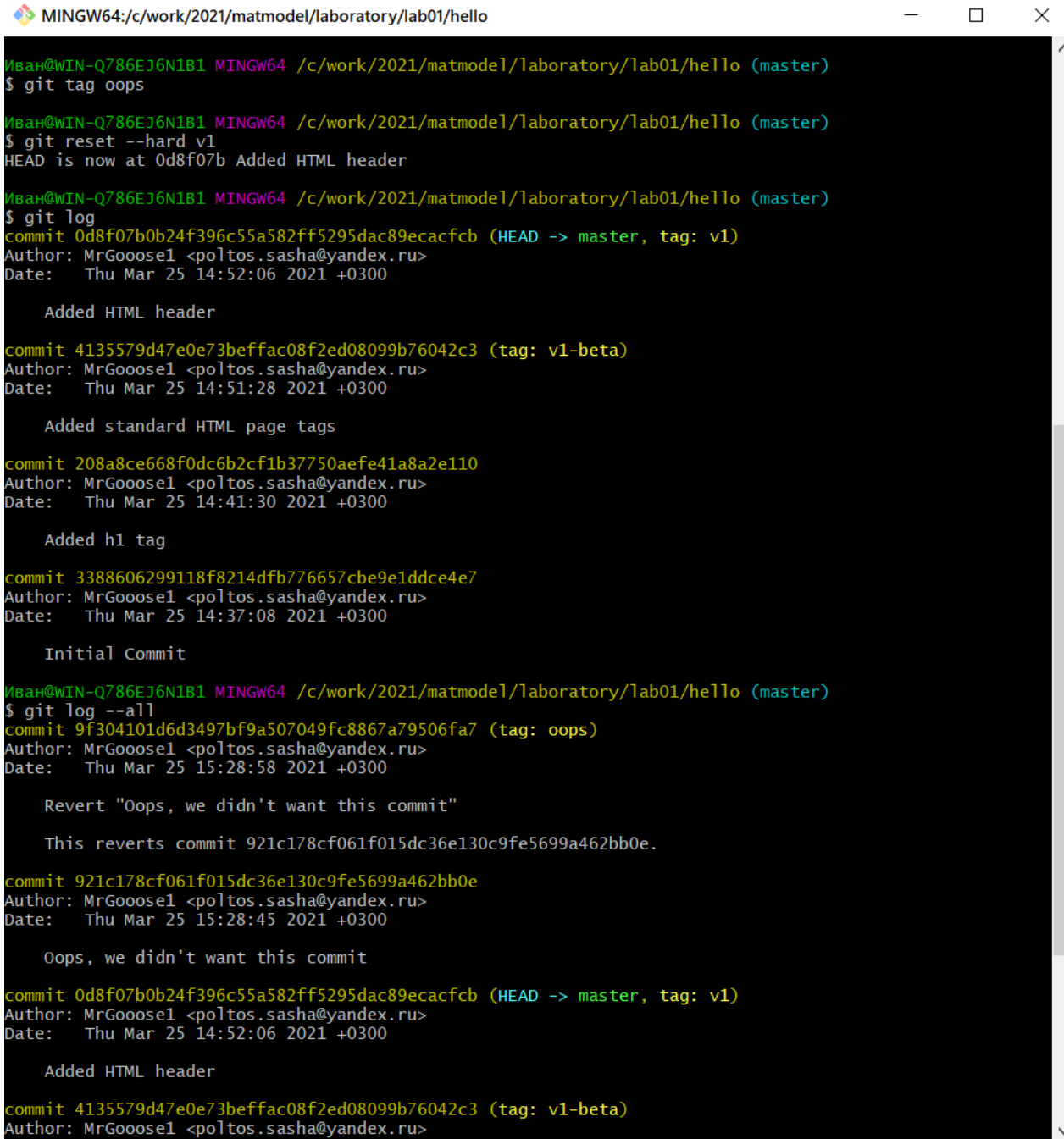


Рис. 10

11. Произвёл удаление коммитов из ветки (рис. 11).



```
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git tag oops

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git reset --hard v1
HEAD is now at 0d8f07b Added HTML header

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log
commit 0d8f07b0b24f396c55a582ff5295dac89ecacfc (HEAD -> master, tag: v1)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:52:06 2021 +0300

    Added HTML header

commit 4135579d47e0e73beffac08f2ed08099b76042c3 (tag: v1-beta)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:51:28 2021 +0300

    Added standard HTML page tags

commit 208a8ce668f0dc6b2cf1b37750aefe41a8a2e110
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:41:30 2021 +0300

    Added h1 tag

commit 3388606299118f8214dfb776657cbe9e1ddce4e7
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:37:08 2021 +0300

    Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log --all
commit 9f304101d6d3497bf9a507049fc8867a79506fa7 (tag: oops)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 15:28:58 2021 +0300

    Revert "Oops, we didn't want this commit"

    This reverts commit 921c178cf061f015dc36e130c9fe5699a462bb0e.

commit 921c178cf061f015dc36e130c9fe5699a462bb0e
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 15:28:45 2021 +0300

    Oops, we didn't want this commit

commit 0d8f07b0b24f396c55a582ff5295dac89ecacfc (HEAD -> master, tag: v1)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:52:06 2021 +0300

    Added HTML header

commit 4135579d47e0e73beffac08f2ed08099b76042c3 (tag: v1-beta)
Author: MrGooose1 <poltos.sasha@yandex.ru>
```

Рис. 11

```
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)  
$ |
```

13. Внес изменения в коммиты (рис. 13).

```

MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit -m "Add an author comment"
[master 270671d] Add an author comment
1 file changed, 2 insertions(+), 1 deletion(-)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit --amend -m "Add an author/email comment"
[master 55b1ec3] Add an author/email comment
Date: Thu Mar 25 15:36:07 2021 +0300
1 file changed, 2 insertions(+), 1 deletion(-)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log
commit 55b1ec3843c5fc1595ddce865c92dc9e9dbb3661 (HEAD -> master)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 15:36:07 2021 +0300

    Add an author/email comment

commit 0d8f07b0b24f396c55a582ff5295dac89ecacfc (tag: v1)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:52:06 2021 +0300

    Added HTML header

commit 4135579d47e0e73beffac08f2ed08099b76042c3 (tag: v1-beta)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:51:28 2021 +0300

    Added standard HTML page tags

commit 208a8ce668f0dc6b2cf1b37750aefe41a8a2e110
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:41:30 2021 +0300

    Added h1 tag

commit 3388606299118f8214dfb776657cbe9e1ddce4e7
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:37:08 2021 +0300

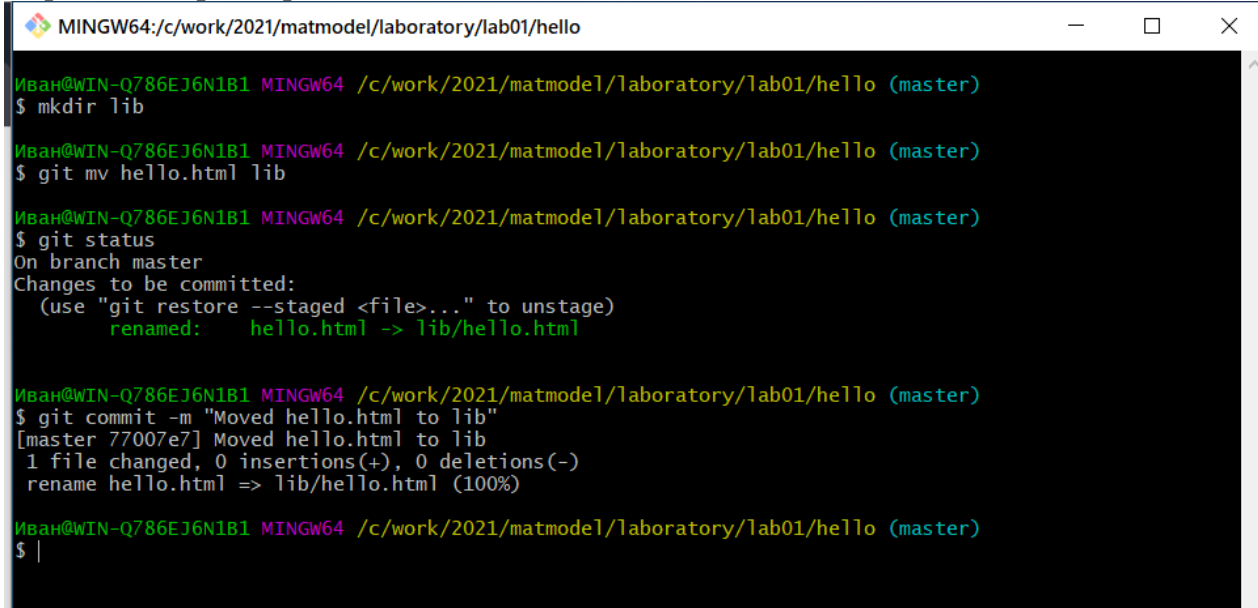
    Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$

```

Рис. 13

14. Переместил файл (рис. 14).

A screenshot of a terminal window titled "MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello". The terminal shows a series of commands and their outputs. The user is on the master branch. They create a directory named 'lib', move 'hello.html' to 'lib', check the status, and commit the change with the message "Moved hello.html to lib".

```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ mkdir lib

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git mv hello.html lib

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    hello.html -> lib/hello.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit -m "Moved hello.html to lib"
[master 77007e7] Moved hello.html to lib
1 file changed, 0 insertions(+), 0 deletions(-)
rename hello.html => lib/hello.html (100%)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ |
```

15.



Рис. 14



Рис. 15

16. Изучил git внутри (рис. 16)

```

MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls -C .git
COMMIT_EDITMSG  ORIG_HEAD  description  index  logs/  packed-refs
HEAD           config     hooks/       info/  objects/  refs/

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls -C .git/objects
06/  1a/  23/  33/  41/  55/  62/  77/  90/  93/  a4/  d0/  f7/  pack/
0d/  20/  27/  3e/  52/  5a/  65/  8a/  92/  9f/  b6/  e8/  info/

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls -C .git/objects/<dir>
bash: syntax error near unexpected token `newline'

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls -C .git/objects/27
0671d174c6e09801c08bdc07022150fbd97230

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ cat .git/config
[core]
    repositoryformatversion = 0
    filemode = false
    bare = false
    logallrefupdates = true
    symlinks = false
    ignorecase = true

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls .git/refs
heads/  tags/

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls .git/refs/heads
master

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls .git/refs/tags
v1  v1-beta

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ cat .git/refs/tags/v1
0d8f07b0b24f396c55a582ff5295dac89ecacfb

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ cat .git/HEAD
ref: refs/heads/master

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$

```

Рис.16

17. Создал ветки (рис 17)

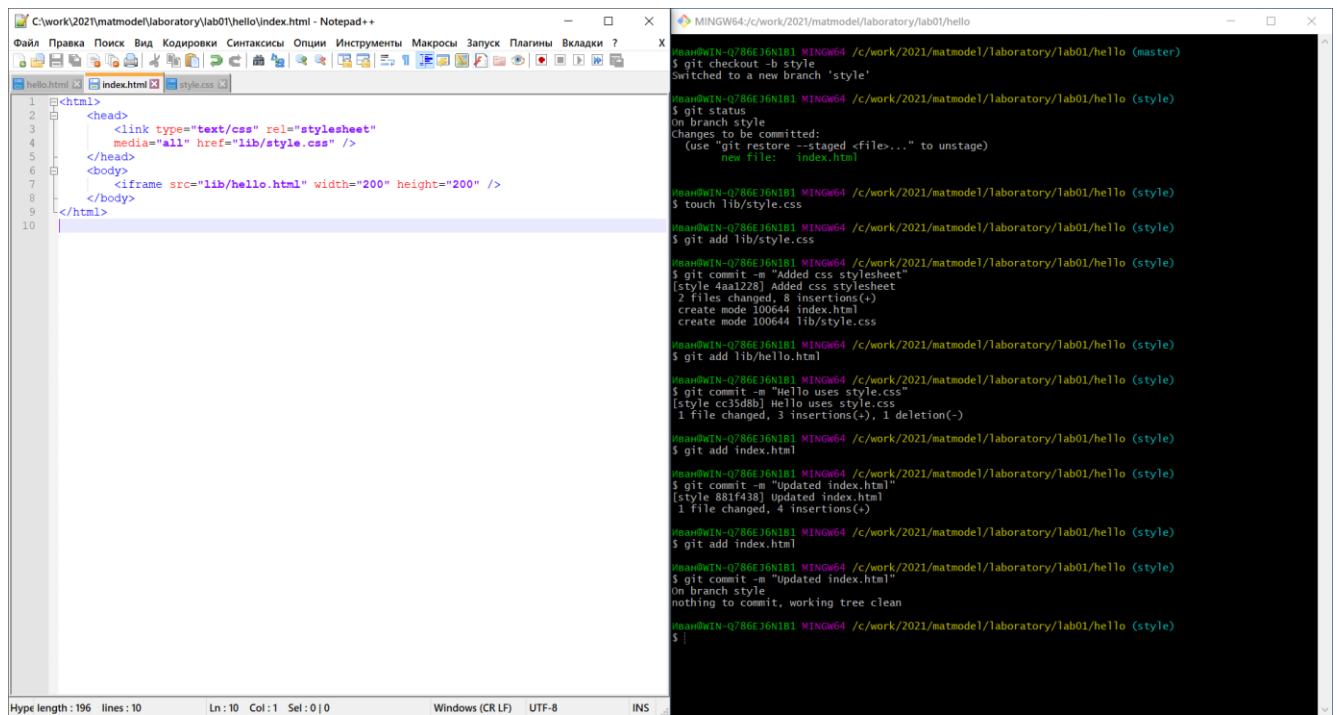


Рис. 17

18. Сделал коммит изменений README.md в ветке master (Рис. 18)

```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello
$ cat lib/hello.html
<!-- Author: MrGooose1 (poltos.sasha@yandex.ru) -->
<html>
  <head>
    <link type="text/css" rel="stylesheet"
      media="all" href="style.css" />
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (style)
$ git checkout master
Switched to branch 'master'

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ echo "This is the Hello World example from the git tutorial." > README.md

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git add README.md

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git commit -m "Added README"
[master 741e19b] Added README
1 file changed, 1 insertion(+)
create mode 100644 README.md

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git log --graph --all
* commit 741e19b263cc0b7d9e7c13a0ac448288611a169e (HEAD -> master)
  Author: MrGooose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 20:13:28 2021 +0300
  |
  | Added README
  |
  * commit 881f43840169407b52ddf9dab335b5863efa2a95 (style)
  | Author: MrGooose1 <poltos.sasha@yandex.ru>
  | Date: Thu Mar 25 16:13:09 2021 +0300
  | |
  | | Updated index.html
  | |
  * commit cc35d8bc916d7cfd5b5b7f556ea42843add06751
  | Author: MrGooose1 <poltos.sasha@yandex.ru>
  | Date: Thu Mar 25 16:12:31 2021 +0300
  | |
  | | Hello uses style.css
  | |
  * commit 4aa12283a2c71e6b9758fc3b37ee3d861b5f6dae
  / Author: MrGooose1 <poltos.sasha@yandex.ru>
  | Date: Thu Mar 25 16:07:03 2021 +0300
  | |
  | | Added css stylesheet
  | |
  * commit 77007e79c611475a4d941bde3e4c3a7d3c86f367
  | Author: MrGooose1 <poltos.sasha@yandex.ru>
  | Date: Thu Mar 25 15:45:11 2021 +0300
```

Рис.18

19. Произвёл слияние веток (Рис. 19)

```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello
* commit 7d76625bc0975dad90159a77daae3e08f1286f4a (HEAD -> style)
Merge: 881f438 741e19b
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:15:19 2021 +0300

    Merge branch 'master' into style
* commit 741e19b263cc0b7d9e7c13a0ac448288611a169e (master)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:13:28 2021 +0300

    Added README
* commit 881f43840169407b52ddf9dab335b5863efa2a95
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 16:13:09 2021 +0300

    Updated index.html
* commit cc35d8bc916d7cfd5b5b7f556ea42843add06751
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 16:12:31 2021 +0300

    Hello uses style.css
* commit 4aa12283a2c71e6b9758fc3b37ee3d861b5f6dae
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 16:07:03 2021 +0300

    Added css stylesheet
* commit 77007e79c611475a4d941bde3e4c3a7d3c86f367
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 15:45:11 2021 +0300

    Moved hello.html to lib
* commit 55b1ec3843c5fc1595ddce865c92dc9e9dbb3661
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 15:36:07 2021 +0300

    Add an author/email comment
* commit 0d8f07b0b24f396c55a582ff5295dac89ecacfc (tag: v1)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:52:06 2021 +0300

    Added HTML header
* commit 4135579d47e0e73beffac08f2ed08099b76042c3 (tag: v1-beta)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 14:51:28 2021 +0300

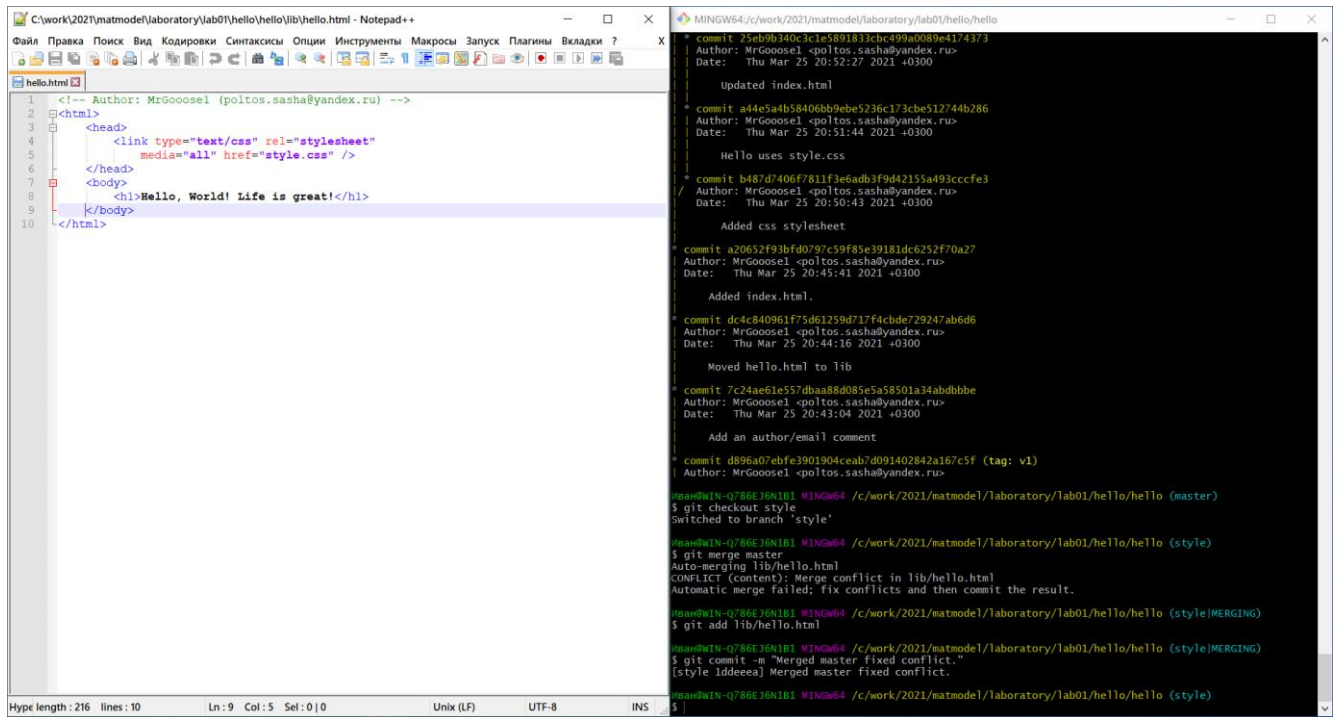
    Added standard HTML page tags
* commit 208a8ce668f0dc6b2cf1b37750aefe41a8a2e110
Author: MrGooose1 <poltos.sasha@yandex.ru>
```

Рис. 19

20. Создал и разрешил конфликт (Рис. 20 и Рис. 21)

```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello/lib
Merge branch 'master' into style
* commit 741e19b263cc0b7d9e7c13a0ac448288611a169e
| Author: MrGooose1 <poltos.sasha@yandex.ru>
| Date: Thu Mar 25 20:13:28 2021 +0300
|
| Added README
|
* commit 881f43840169407b52ddf9dab335b5863efa2a95
| Author: MrGooose1 <poltos.sasha@yandex.ru>
| Date: Thu Mar 25 16:13:09 2021 +0300
|
| Updated index.html
|
* commit cc35d8bc916d7cfd5b5b7f556ea42843add06751
| Author: MrGooose1 <poltos.sasha@yandex.ru>
| Date: Thu Mar 25 16:12:31 2021 +0300
|
| Hello uses style.css
|
* commit 4aa12283a2c71e6b9758fc3b37ee3d861b5f6dae
| Author: MrGooose1 <poltos.sasha@yandex.ru>
| Date: Thu Mar 25 16:07:03 2021 +0300
|
| Added css stylesheet
|
* commit 77007e79c611475a4d941bde3e4c3a7d3c86f367
| Author: MrGooose1 <poltos.sasha@yandex.ru>
| Date: Thu Mar 25 15:45:11 2021 +0300
|
| Moved hello.html to lib
|
* commit 55b1ec3843c5fc1595ddce865c92dc9e9dbb3661
| Author: MrGooose1 <poltos.sasha@yandex.ru>
| Date: Thu Mar 25 15:36:07 2021 +0300
|
| Add an author/email comment
|
* commit 0d8f07b0b24f396c55a582ff5295dac89ecacfc (tag: v1)
| Author: MrGooose1 <poltos.sasha@yandex.ru>
| Date: Thu Mar 25 14:52:06 2021 +0300
|
| Added HTML header
|
* commit 4135579d47e0e73beffac08f2ed08099b76042c3 (tag: v1-beta)
| Author: MrGooose1 <poltos.sasha@yandex.ru>
|
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/lib (master)
$ git checkout style
error: The following untracked working tree files would be overwritten by checkout:
        index.html
        lib/style.css
Please move or remove them before you switch branches.
Aborting
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/lib (master)
$ git merge master
Already up to date.
```

Рис. 20



21. Произвёл сброс ветки style (рис. 22)

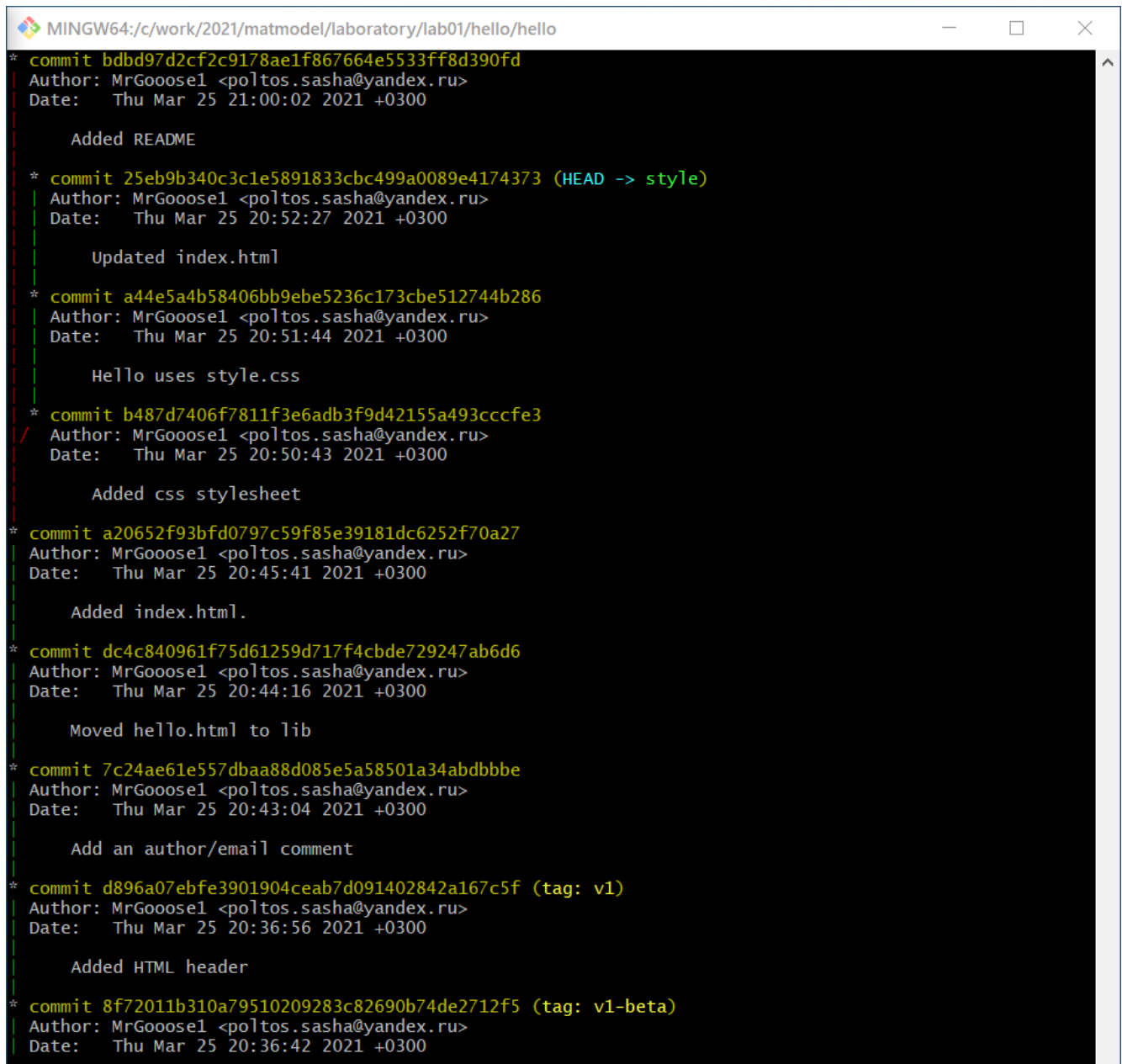
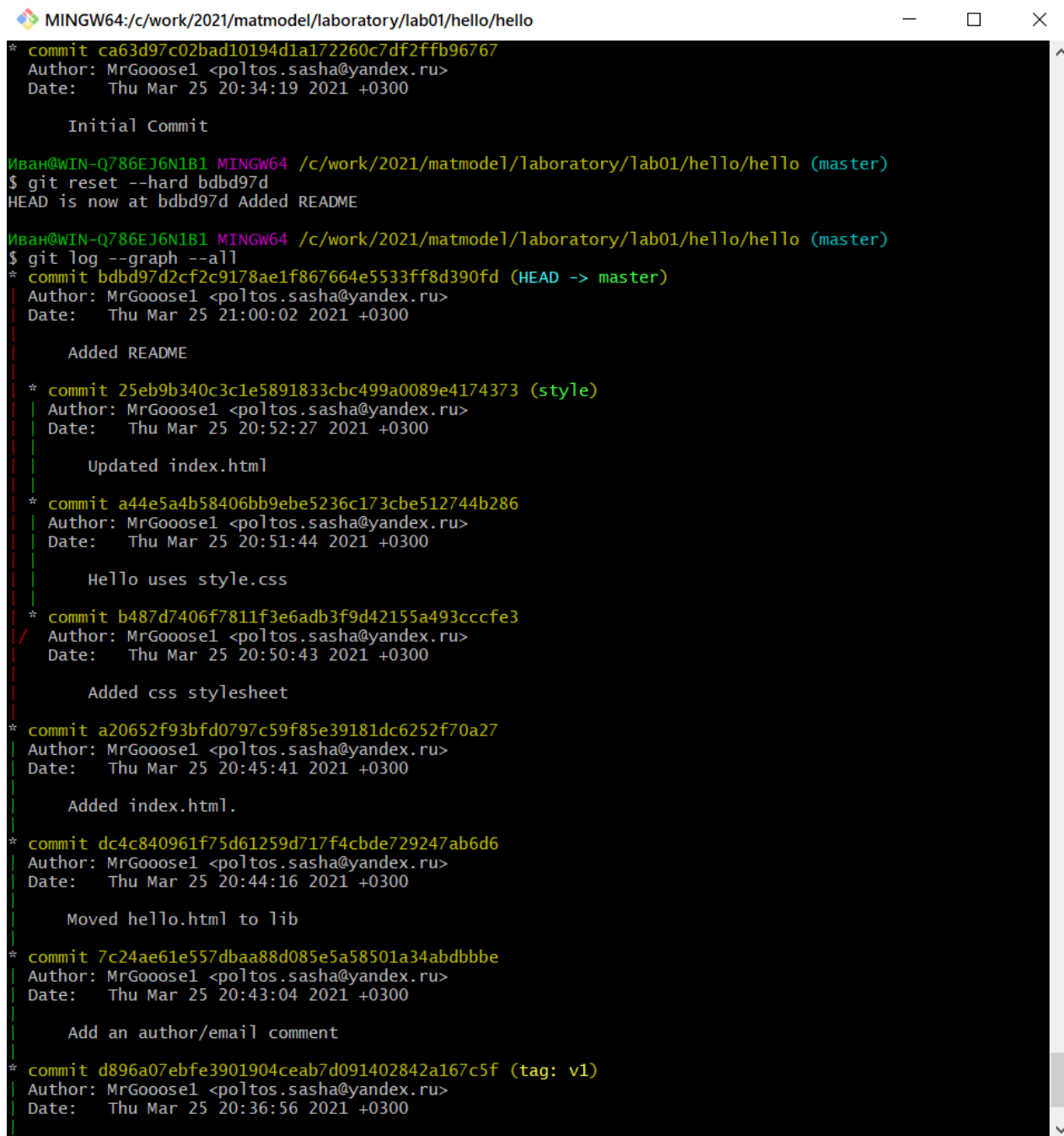


Рис. 22

22. Произвёл сброс ветки master (Рис. 23)



```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello/hello
* commit ca63d97c02bad10194d1a172260c7df2ffb96767
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:34:19 2021 +0300

Initial Commit

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git reset --hard bdbd97d
HEAD is now at bdbd97d Added README

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git log --graph --all
* commit bdbd97d2cf2c9178ae1f867664e5533ff8d390fd (HEAD -> master)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 21:00:02 2021 +0300

Added README

* commit 25eb9b340c3c1e5891833cbc499a0089e4174373 (style)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:52:27 2021 +0300

Updated index.html

* commit a44e5a4b58406bb9ebe5236c173cbe512744b286
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:51:44 2021 +0300

Hello uses style.css

* commit b487d7406f7811f3e6adb3f9d42155a493cccf3
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:50:43 2021 +0300

Added css stylesheet

* commit a20652f93bfd0797c59f85e39181dc6252f70a27
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:45:41 2021 +0300

Added index.html.

* commit dc4c840961f75d61259d717f4cbde729247ab6d6
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:44:16 2021 +0300

Moved hello.html to lib

* commit 7c24ae61e557dbaa88d085e5a58501a34abdbbbe
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:43:04 2021 +0300

Add an author/email comment

* commit d896a07ebfe3901904ceab7d091402842a167c5f (tag: v1)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:36:56 2021 +0300
```

Рис. 23

23. Произвёл перебазирование (Рис. 24)

```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello/hello
| Date: Thu Mar 25 20:35:20 2021 +0300
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git checkout style
Switched to branch 'style'

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (style)
$ git rebase master
Successfully rebased and updated refs/heads/style.

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (style)
$ git log --graph
* commit bd1941d2c903deb94794987b01316c62c2fb9691 (HEAD -> style)
  Author: MrGoose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 20:52:27 2021 +0300

    Updated index.html

* commit 57acf99820e44d2775f455b6737714153076ee9d
  Author: MrGoose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 20:51:44 2021 +0300

    Hello uses style.css

* commit 18ed1e3c57d6961c6b7dd84554a1e7b87f3e860e
  Author: MrGoose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 20:50:43 2021 +0300

    Added css stylesheet

* commit bdbd97d2cf2c9178ae1f867664e5533ff8d390fd (master)
  Author: MrGoose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 21:00:02 2021 +0300

    Added README

* commit a20652f93bfd0797c59f85e39181dc6252f70a27
  Author: MrGoose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 20:45:41 2021 +0300

    Added index.html.

* commit dc4c840961f75d61259d717f4cbde729247ab6d6
  Author: MrGoose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 20:44:16 2021 +0300

    Moved hello.html to lib

* commit 7c24ae61e557dbaa88d085e5a58501a34abdbbbe
  Author: MrGoose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 20:43:04 2021 +0300

    Add an author/email comment

* commit d896a07ebfe3901904ceab7d091402842a167c5f (tag: v1)
  Author: MrGoose1 <poltos.sasha@yandex.ru>
  Date: Thu Mar 25 20:36:56 2021 +0300
```

Рис. 24

24. Произвёл копирование репозитория (Рис. 25)


```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello
Author: MrGoose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:44:16 2021 +0300

Moved hello.html to lib

commit 7c24ae61e557dbaa88d085e5a58501a34abdbbbe
Author: MrGoose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:43:04 2021 +0300

Add an author/email comment

commit d896a07ebfe3901904ceab7d091402842a167c5f (tag: v1)
Author: MrGoose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:36:56 2021 +0300

Added HTML header

commit 8f72011b310a79510209283c82690b74de2712f5 (tag: v1-beta)
Author: MrGoose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:36:42 2021 +0300

Added standard HTML page tags

commit 50ab30b3bf52d61cf3443c1825a3b791ad050f67
Author: MrGoose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:35:20 2021 +0300

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ cd ..

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ pwd
/c/work/2021/matmodel/laboratory/lab01/hello

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls
hello/

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git clone hello cloned_hello
Cloning into 'cloned_hello'...
done.

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls
cloned_hello/  hello/

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ cd cloned_hello

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ ls
README.md  index.html  lib/

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git log --all
commit bd1941d2c903deb94794987b01316c62c2fb9691 (HEAD -> master, origin/style, origin/master, origin/HEAD)
```

Рис.25

25. Произвёл просмотр удалённых репозиторий (Рис. 26)


```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello
commit dc4c840961f75d61259d717f4cbde729247ab6d6
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:44:16 2021 +0300

    Moved hello.html to lib

commit 7c24ae61e557dbaa88d085e5a58501a34abdbbbe
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:43:04 2021 +0300

    Add an author/email comment

commit d896a07ebfe3901904ceab7d091402842a167c5f (tag: v1)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:36:56 2021 +0300

    Added HTML header

commit 8f72011b310a79510209283c82690b74de2712f5 (tag: v1-beta)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:36:42 2021 +0300

    Added standard HTML page tags

commit 50ab30b3bf52d61cf3443c1825a3b791ad050f67
Author: MrGooose1 <poltos.sasha@yandex.ru>

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git remote
origin

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git remote show origin
* remote origin
  Fetch URL: C:/work/2021/matmodel/laboratory/lab01/hello/hello
  Push URL: C:/work/2021/matmodel/laboratory/lab01/hello/hello
  HEAD branch: master
  Remote branches:
    master tracked
    style tracked
  Local branch configured for 'git pull':
    master merges with remote master
  Local ref configured for 'git push':
    master pushes to master (up to date)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git branch
* master

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git branch -a
* master
  remotes/origin/HEAD -> origin/master
  remotes/origin/master
  remotes/origin/style

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$
```

Рис. 26

26. Произвёл работу над файлом reamy.dm (Рис. 27)

```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello

Added index.html.

commit dc4c840961f75d61259d717f4cbde729247ab6d6
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:44:16 2021 +0300

    Moved hello.html to lib

commit 7c24ae61e557dbaa88d085e5a58501a34abdbbbe
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:43:04 2021 +0300

    Add an author/email comment

commit d896a07ebfe3901904ceab7d091402842a167c5f (tag: v1)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:36:56 2021 +0300

    Added HTML header

commit 8f72011b310a79510209283c82690b74de2712f5 (tag: v1-beta)
Author: MrGooose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:36:42 2021 +0300

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ cat README
cat: README: No such file or directory

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ cat README.md
This is the Hello World example from the git tutorial.

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git merge origin/master
Updating bd1941d..6394182
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ cat README.md
This is the Hello World example from the git tutorial.

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git pull
Already up to date.

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git fetch

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git merge origin/master
Already up to date.

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ |
```

Рис.27

27. Создал чистый репозиторий и отправил изменения (Рис. 28 и Рис.29)

```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello/hello
commit bd1941d2c903deb94794987b01316c62c2fb9691 (origin/style, style)
Author: MrGoose1 <poltos.sasha@yandex.ru>
Date: Thu Mar 25 20:52:27 2021 +0300

    Updated index.html

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ cd ..

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ git clone --bare hello hello.git
Cloning into bare repository 'hello.git'...
done.

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ ls hello.git
HEAD config description hooks/ info/ objects/ packed-refs refs/

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello (master)
$ cd hello

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git remote add shared ../hello.git

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git checkout master
Already on 'master'
M      README.md

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git add README
fatal: pathspec 'README' did not match any files

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git add README.dm
fatal: pathspec 'README.dm' did not match any files

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git add README.md

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git commit -m "Added shared comment to readme"
[master fbf798f] Added shared comment to readme
1 file changed, 1 insertion(+), 1 deletion(-)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ git push shared master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 408 bytes | 408.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To ../hello.git
6394182..fbf798f master -> master

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ |
```

Рис.28

```
MINGW64:/c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/hello (master)
$ cd ../cloned_hello

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git remote add shared ../hello.git

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git branch --track shared master
Branch 'shared' set up to track local branch 'master'.

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ git pull shared master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 388 bytes | 2.00 KiB/s, done.
From ../hello
 * branch          master      -> FETCH_HEAD
 * [new branch]    master      -> shared/master
Updating 6394182..fbf798f
Fast-forward
 README.md | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ cat README.md
This is the Hello World example from the git tutorial.
(Changed in the original and pushed to shared)
Иван@WIN-Q786EJ6N1B1 MINGW64 /c/work/2021/matmodel/laboratory/lab01/hello/cloned_hello (master)
$ |
```

Рис.29

Вывод.

Приобрёл навыки работы с git.

Контрольные вопросы.