

Задание 2.1 | Работа с Git

1. Инициализация GIT

```
C:\Users\Herze>cd C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo
C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git init
Initialized empty Git repository in C:/Users/Herze/OneDrive/Рабочий стол/Herzen moon/Практики/ТП-1/BCP-2.1/demo repo/.git/
```

2. Проверка статуса

```
C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)
```

3. Создание файла и его проверка

```
C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>NUL> readme.txt
"NUL" не является внутренней или внешней
командой, исполняемой программой или пакетным файлом.

C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
```

4. Отслеживание файла

```
C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git add readme.txt

C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   readme.txt
```

5. Фиксируем файл

```
C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git commit -m "First file"
[master (root-commit) c466bc1] First file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 readme.txt
```

6. Добавили несколько новых файлов и проверили их статус

```
C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git add "*.txt"

C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   readme-2.txt
        new file:   readme-3.txt
        modified:   readme.txt
```

7. Создание коммитов

```
C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git commit -m "ALL"
[master e5d58ea] ALL
3 files changed, 3 insertions(+)
create mode 100644 readme-2.txt
create mode 100644 readme-3.txt
```

8. Просмотр истории

```
C:\Users\Herze\OneDrive\Рабочий стол\Herzen moon\Практики\ТП-1\BCP-2.1\demo repo>git log
commit e5d58ea5d02c9a3f2aedc63c826cc6e697f170d7 (HEAD -> master)
Author: Daniel <herzenmoon@gmail.com>
Date:   Wed Sep 27 20:00:16 2023 +0300

    ALL

commit c466bc11c2809ec0423eb8caa3cd6fced7e23e4d
Author: Daniel <herzenmoon@gmail.com>
Date:   Wed Sep 27 19:50:15 2023 +0300

    First file
```

9. Создание удаленного репозитория и выгрузка файлов

```
C:\demorepo>git remote add origin https://github.com/slavndn/demorepo

C:\demorepo>git push -u origin master
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (7/7), 490 bytes | 490.00 KiB/s, done.
Total 7 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/slavndn/demorepo
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

10. Загрузка файлов с удаленного репозитория

```
C:\demorepo> git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 664 bytes | 66.00 KiB/s, done.
From https://github.com/slavndn/demorepo
 * branch            master       -> FETCH_HEAD
    9e874c4..af0f3e2 master       -> origin/master
Updating 9e874c4..af0f3e2
Fast-forward
 readme.txt | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)

C:\demorepo>
```

11. Изменение и просмотр информации

```
C:\demorepo>git diff HEAD
diff --git a/readme.txt b/readme.txt
index 9435b54..6911e5d 100644
--- a/readme.txt
+++ b/readme.txt
@@ -1,2 +1,3 @@
 Hello world!
 My name Danny Moore
+GO GO GO GO GO GO GO GO
```

12. Создаем каталок и файл

```
C:\demorepo>mkdir folder

C:\demorepo>cd folder

C:\demorepo\folder>NUL> bye.txt
"NUL" не является внутренней или внешней
командой, исполняемой программой или пакетным файлом.

C:\demorepo\folder>git status
On branch master
Your branch is up to date with 'origin/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:   ../readme.txt

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

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

C:\demorepo\folder>
```

13. Просмотр статуса

```
C:\demorepo\folder>git add ./bye.txt

C:\demorepo\folder>git status
On branch master
Your branch is up to date with 'origin/master'.

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

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:   ../readme.txt

C:\demorepo\folder>
```

14. Просмотр изменений

```
C:\demorepo\folder>git diff --staged
diff --git a/folder/bye.txt b/folder/bye.txt
new file mode 100644
index 0000000..e69de29

C:\demorepo\folder>_
```

15. Ветки

```
C:\demorepo\folder>git branch clean_up

C:\demorepo\folder>git branch
  clean_up
* master

C:\demorepo\folder>git checkout
A       folder/bye.txt
M       readme.txt
Your branch is up to date with 'origin/master'.

C:\demorepo\folder>git checkout clean_up
Switched to branch 'clean_up'
A       folder/bye.txt
M       readme.txt

C:\demorepo\folder>git branch
* clean_up
  master

C:\demorepo\folder>
```

16. Удаление каталога и файлов

```
C:\demorepo\folder>git branch
* clean_up
  master

C:\demorepo\folder> commit -m "deleted folder"
"commit" не является внутренней или внешней
командой, исполняемой программой или пакетным файлом.

C:\demorepo\folder>git commit -m "deleted folder"
[clean_up 6acf247] deleted folder
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 folder/bye.txt

C:\demorepo\folder>del "readme now.txt"
Не удается найти C:\demorepo\folder\readme now.txt

C:\demorepo\folder>git branch
* clean_up
  master

C:\demorepo\folder>git checkout master
Switched to branch 'master'
M       readme.txt
Your branch is up to date with 'origin/master'.

C:\demorepo\folder>git branch
  clean_up
* master

C:\demorepo\folder>del "readme now.txt"
Не удается найти C:\demorepo\folder\readme now.txt

C:\demorepo\folder>
```

17. Сохранение изменений

```
C:\demorepo\folder>git push
Everything up-to-date
```