

## Задание 2.1

1. Заходим в папку

```
C:\Users\User> cd pract
```

2. Инициализируем Git-репозиторий

```
C:\Users\User\pract>git init  
Initialized empty Git repository in C:/Users/User/pract/.git/
```

3. Для отображения скрытых файлов используем

```
C:\Users\User\pract> dir /a:H
```

- 3.1. Результат работы:

```
Содержимое папки C:\Users\User\pract  
26.09.2022  19:33    <DIR>          .git  
              0 файлов              0 байт  
              1 папок  133 769 670 656 байт свободно
```

4. Отобразим git status

```
C:\Users\User\pract> git status  
On branch master  
  
No commits yet  
  
nothing to commit (create/copy files and use "git add" to track)
```

5. Создаем текстовый файл с текстом "Hello world"

```
C:\Users\User\pract> copy con readme.txt  
Hello world
```

6. Посмотрим статус файла

```
C:\Users\User\pract> 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)
```

7. Добавим файл в отслеживание

```
C:\Users\User\pract> git add readme.txt

C:\Users\User\pract>git status
On branch master

No commits yet

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

8. Закоммитим файл

```
C:\Users\User\pract> git commit -m "First file"
[master (root-commit) f29ab91] First file
1 file changed, 1 insertion(+)
 create mode 100644 readme.txt
```

9. Добавим все файлы с расширением ".txt"

```
C:\Users\User\pract> git add "*.txt"

C:\Users\User\pract>git status
On branch master

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   1.txt.txt
        new file:   2.txt.txt
        new file:   3.txt.txt
```

10. Просматриваем расширенную историю коммитов

```
C:\Users\User\pract> git log --summary
commit 5497ef1f3753889d21e666361a2c12d0916967a1 (HEAD -> master)
Author: Nikita <nbgrhenjq@gmail.com>
Date:   Mon Sep 26 19:51:21 2022 +0300

    All files with txt extension were added

    create mode 100644 1.txt.txt
    create mode 100644 2.txt.txt
    create mode 100644 3.txt.txt

commit f29ab9165f13d0bf534d4fdc65d285431d128caf
Author: Nikita <nbgrhenjq@gmail.com>
Date:   Mon Sep 26 19:45:30 2022 +0300

    First file

    create mode 100644 readme.txt
```

11. Выгружаем локальный репозиторий в удаленный

```

C:\Users\User\pract> git remote add origin https://github.com/IvanovvNikita/practice2.1.git

C:\Users\User\pract> git push -u origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 491 bytes | 491.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/IvanovvNikita/practice2.1/pull/new/master
remote:
To https://github.com/IvanovvNikita/practice2.1.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

C:\Users\User\pract> 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), 650 bytes | 108.00 KiB/s, done.
From https://github.com/IvanovvNikita/practice2.1
 * branch            master       -> FETCH_HEAD
   5497ef1..9e588ed master       -> origin/master
Updating 5497ef1..9e588ed
Fast-forward
 readme.txt | 2 ++
 1 file changed, 2 insertions(+)

```

12. Добавляем изменения в файл и сравниваем с зафиксированным

```

C:\Users\User\pract> git diff HEAD
diff --git a/1.txt.txt b/1.txt.txt
deleted file mode 100644
index e69de29..0000000
diff --git a/2.txt.txt b/2.txt.txt
deleted file mode 100644
index e69de29..0000000
diff --git a/3.txt.txt b/3.txt.txt
deleted file mode 100644
index e69de29..0000000

C:\Users\User\pract> readme.txt

C:\Users\User\pract> git diff HEAD
diff --git a/1.txt.txt b/1.txt.txt
deleted file mode 100644
index e69de29..0000000
diff --git a/2.txt.txt b/2.txt.txt
deleted file mode 100644
index e69de29..0000000
diff --git a/3.txt.txt b/3.txt.txt
deleted file mode 100644
index e69de29..0000000
diff --git a/readme.txt b/readme.txt
index 7780f02..051463c 100644
--- a/readme.txt
+++ b/readme.txt
@@ -1,3 +1,3 @@
-Hello world
-Hello world
-Hello world
+Hello world!
+Hello world!
+Hello world!

```

13. Создаем еще одну ветку

```
C:\Users\User\pract> git branch nikita
```

14. Просматриваем ветки

```
C:\Users\User\pract>git branch
* master
  nikita
```

15. Изменяем ветку

```
C:\Users\User\pract>git checkout nikita
Switched to branch 'nikita'
```

16. Вносим изменения в ветки

17. Делаем слияние веток

```
C:\Users\User\pract>git merge master
```