

## Partea 1. Command line

1. Navighează către orice folder care conține cel puțin un subfolder.

```
Command Prompt
C:\Users\User>cd C:\Program Files
C:\Program Files>cd Git
C:\Program Files\Git>
```

2. Afișează lista de fișiere/foldere din acesta, apoi selectați un folder din folderul de lucru curent.

```
Command Prompt
C:\Users\User>cd C:\Program Files
C:\Program Files>cd Git
C:\Program Files\Git>dir
Volume in drive C has no label.
Volume Serial Number is 90F2-F87C

Directory of C:\Program Files\Git

09.08.2024 10:13 <DIR>      .
09.08.2024 10:13 <DIR>      ..
09.08.2024 10:12 <DIR>      bin
09.08.2024 10:13 <DIR>      cmd
09.08.2024 10:13 <DIR>      dev
09.08.2024 10:13 <DIR>      etc
29.07.2024 18:18          138.632 git-bash.exe
29.07.2024 18:18          138.104 git-cmd.exe
29.07.2024 18:29          18.765 LICENSE.txt
09.08.2024 10:13 <DIR>      mingw64
29.07.2024 18:30          265.974 ReleaseNotes.html
09.08.2024 10:12 <DIR>      tmp
09.08.2024 10:13          1.305.488 unins000.dat
09.08.2024 10:10          3.384.040 unins000.exe
09.08.2024 10:13          24.183 unins000.msg
09.08.2024 10:13 <DIR>      usr
7 File(s)          5.275.186 bytes
9 Dir(s)          144.011.853.824 bytes free

C:\Program Files\Git>cd cmd
C:\Program Files\Git\cmd>
```

3. Afișează lista de fișiere din folderul selectat.

```
Command Prompt
C:\Program Files\Git\cmd>dir
Volume in drive C has no label.
Volume Serial Number is 90F2-F87C

Directory of C:\Program Files\Git\cmd

09.08.2024 10:13 <DIR>      .
09.08.2024 10:13 <DIR>      ..
29.07.2024 18:29          1.038 aslr-manager.ps1
29.07.2024 18:18          137.608 git-gui.exe
29.07.2024 18:18          46.456 git-lfs.exe
29.07.2024 18:18          33.436 git-receive-pack.exe
29.07.2024 18:18          33.436 git-upload-pack.exe
29.07.2024 18:18          46.456 git.exe
29.07.2024 18:18          137.608 gitk.exe
29.07.2024 18:18          46.456 scalar.exe
29.07.2024 18:18          3.022 start-ssh-agent.cmd
29.07.2024 18:18          2.723 start-ssh-pageant.cmd
29.07.2024 18:18          46.968 tig.exe
11 File(s)          535.207 bytes
2 Dir(s)          144.010.940.416 bytes free

C:\Program Files\Git\cmd>
```

4. Afişează din nou conţinutul acestuia, dar de data aceasta afişând:

5. 4.a. informaţiile despre proprietarul fiecărui fişier,

```
Command Prompt
C:\Program Files\Git\cmd>dir/q
Volume in drive C has no label.
Volume Serial Number is 90F2-F87C

Directory of C:\Program Files\Git\cmd

09.08.2024  10:13    <DIR>          BUILTIN\Administrators .
09.08.2024  10:13    <DIR>          BUILTIN\Administrators ..
29.07.2024  18:29             1.038 BUILTIN\Administrators aslr-manager.ps1
29.07.2024  18:18          137.608 BUILTIN\Administrators git-gui.exe
29.07.2024  18:18          46.456 BUILTIN\Administrators git-lfs.exe
29.07.2024  18:18          33.436 BUILTIN\Administrators git-receive-pack.exe
29.07.2024  18:18          33.436 BUILTIN\Administrators git-upload-pack.exe
29.07.2024  18:18          46.456 BUILTIN\Administrators git.exe
29.07.2024  18:18          137.608 BUILTIN\Administrators gitk.exe
29.07.2024  18:18          46.456 BUILTIN\Administrators scalar.exe
29.07.2024  18:18           3.022 BUILTIN\Administrators start-ssh-agent.cmd
29.07.2024  18:18           2.723 BUILTIN\Administrators start-ssh-pageant.cmd
29.07.2024  18:18          46.968 BUILTIN\Administrators tig.exe
               11 File(s)          535.207 bytes
               2 Dir(s) 144.010.428.416 bytes free

C:\Program Files\Git\cmd>
```

6. 4.b. toate fişierele ascunse.

```
Command Prompt
C:\Program Files\Git\cmd>dir/a:h
Volume in drive C has no label.
Volume Serial Number is 90F2-F87C

Directory of C:\Program Files\Git\cmd

File Not Found

C:\Program Files\Git\cmd>
```

7. Afişează lista de fişiere din folderul de lucru curent, SORTATĂ după dimensiunea fişierelor:

8. 5.a. de la cea mai mică dimensiune la cea mai mare,

```
Command Prompt
C:\Program Files\Git\cmd>dir/o:s
Volume in drive C has no label.
Volume Serial Number is 90F2-F87C

Directory of C:\Program Files\Git\cmd

09.08.2024  10:13    <DIR>          ..
09.08.2024  10:13    <DIR>          .
29.07.2024  18:29             1.038 aslr-manager.ps1
29.07.2024  18:18           2.723 start-ssh-pageant.cmd
29.07.2024  18:18           3.022 start-ssh-agent.cmd
29.07.2024  18:18          33.436 git-receive-pack.exe
29.07.2024  18:18          33.436 git-upload-pack.exe
29.07.2024  18:18          46.456 git-lfs.exe
29.07.2024  18:18          46.456 scalar.exe
29.07.2024  18:18          46.456 git.exe
29.07.2024  18:18          46.060 tig.exe
29.07.2024  18:18          137.608 git-gui.exe
29.07.2024  18:18          137.608 gitk.exe
               11 File(s)          535.207 bytes
               2 Dir(s) 143.988.813.824 bytes free

C:\Program Files\Git\cmd>
```

9. 5.b. de la cea mai mare dimensiune la cea mai mică.

```
Command Prompt
C:\Program Files\Git\cmd>dir/o:-s
Volume in drive C has no label.
Volume Serial Number is 90F2-F87C

Directory of C:\Program Files\Git\cmd

29.07.2024  18:18                137.608 git-gui.exe
29.07.2024  18:18                137.608 gitk.exe
29.07.2024  18:18                 46.968 tig.exe
29.07.2024  18:18                 46.456 git-lfs.exe
29.07.2024  18:18                 46.456 git.exe
29.07.2024  18:18                 46.456 scalar.exe
29.07.2024  18:18                 33.436 git-upload-pack.exe
29.07.2024  18:18                 33.436 git-receive-pack.exe
29.07.2024  18:18                  3.022 start-ssh-agent.cmd
29.07.2024  18:18                  2.723 start-ssh-pageant.cmd
29.07.2024  18:29                  1.038 aslr-manager.ps1
09.08.2024  10:13                <DIR> .
09.08.2024  10:13                <DIR> ..
                11 File(s)          535.207 bytes
                2 Dir(s)  143.988.809.728 bytes free

C:\Program Files\Git\cmd>
```

## Partea 2. Git

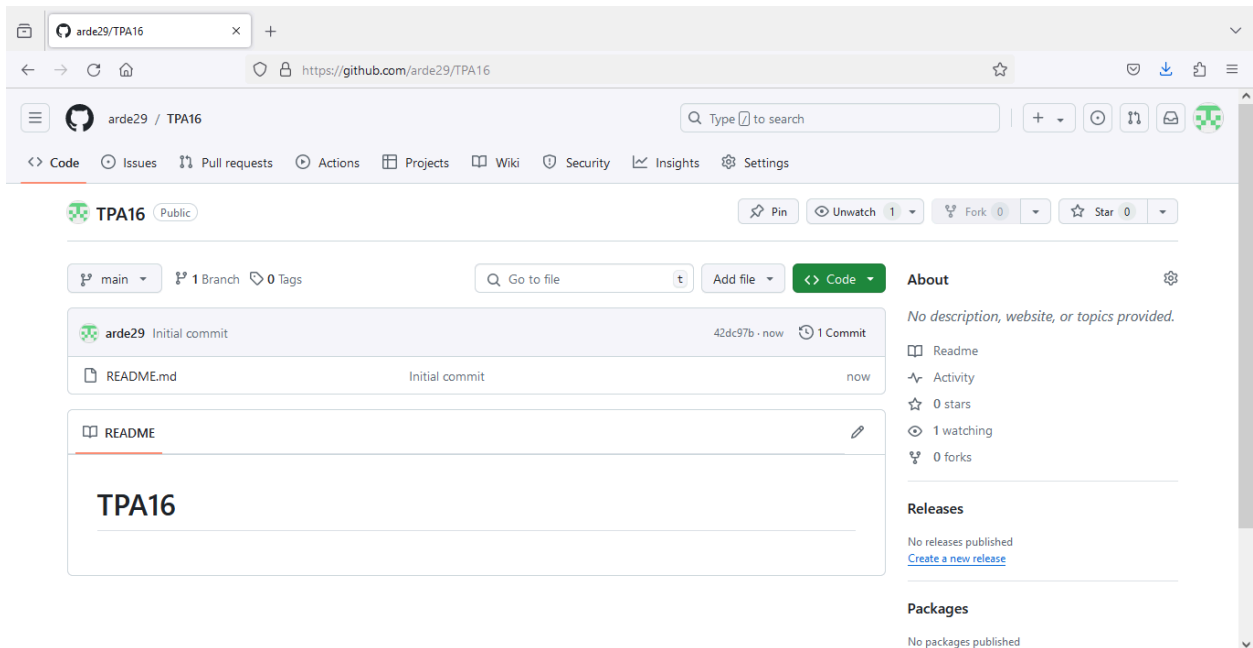
1. Instalează GIT pe calculator;
2. Creează pe calculator un folder separat în care vei clona un repository;
3. Deschide un terminal (Linux, MacOS) sau GIT CMD (Windows);
4. Navighează în folderul creat la pasul 2 folosind comanda cd;

```
MINGW64/c/Users/User/Desktop/GIT
User@DESKTOP-ND9540S MINGW64 ~
$ cd Desktop/GIT
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT
$ |
```

5. Configurează GIT: modifică configurarea globală (adaugă [user.name](#) și user.email);

```
MINGW64/c/Users/User/Desktop/GIT
User@DESKTOP-ND9540S MINGW64 ~
$ cd Desktop/GIT
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT
$ git config --global user.name "Bogdan"
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT
$ git config --global user.email bogdan.ardelean29@yahoo.com
```

6. Creează un nou repository pe GitHub (<https://github.com/>);



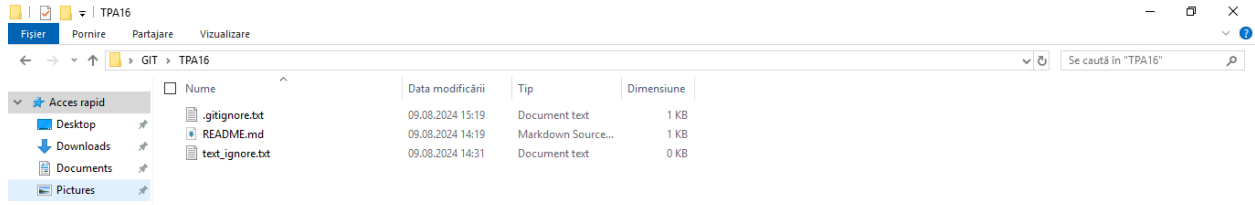
7. Clonează repository-ul (creat la pasul 6) pe calculator;

```
MINGW64/c/Users/User/Desktop/GIT
User@DESKTOP-N09540S MINGW64 ~
$ cd Desktop/GIT
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git config --global user.name "Bogdan"
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git config --global user.email bogdan.ardelean29@yahoo.com
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git clone https://github.com/arde29/TPA16.git
Cloning into 'TPA16'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$
```

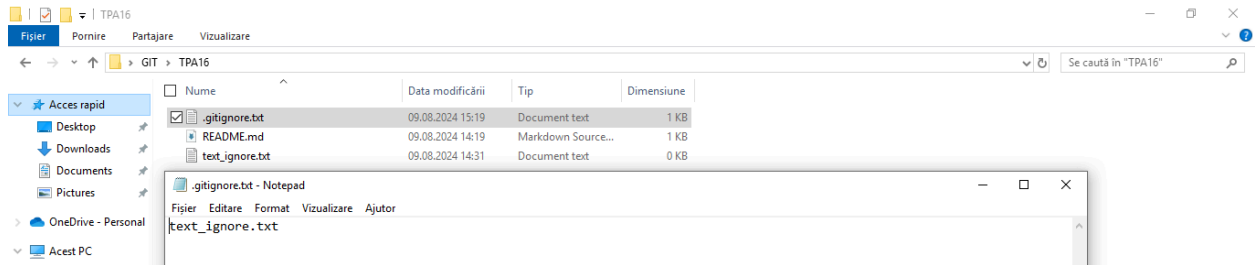
8. Navighează în repository-ul clonat pe calculator folosind comanda cd;

```
MINGW64/c/Users/User/Desktop/GIT/TPA16
User@DESKTOP-N09540S MINGW64 ~
$ cd Desktop/GIT
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git config --global user.name "Bogdan"
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git config --global user.email bogdan.ardelean29@yahoo.com
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git clone https://github.com/arde29/TPA16.git
Cloning into 'TPA16'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ cd TPA16
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$
```

9. Creează un fișier .gitignore;
10. Creează un fișier text\_ignore.txt;



11. Editează fișierul .gitignore, adăugând numele fișierului text\_ignore.txt (trebuie doar să adaugi linia "text\_ignore.txt" în fișierul .gitignore);



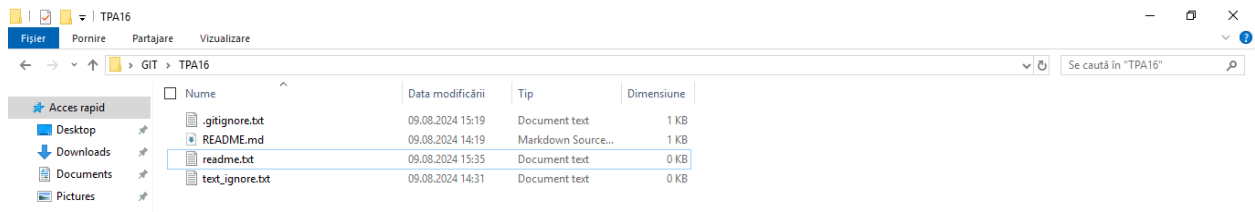
12. Asigură-te că fișierul text\_ignore.txt nu este vizibil pentru GIT cu comanda git status;

```
MINGW64/c/Users/User/Desktop/GIT/TPA16
User@DESKTOP-ND9540S MINGW64 ~
$ cd Desktop/GIT
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT
$ git config --global user.name "Bogdan"
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT
$ git config --global user.email bogdan.ardelean29@yahoo.com
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT
$ git clone https://github.com/arde29/TPA16.git
Cloning into 'TPA16'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT
$ cd TPA16
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

nothing added to commit but untracked files present (use "git add" to track)
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ |
```

13. Creează un fișier gol readme.txt;



14. Pregătește fișierul readme.txt pentru commit prin indexarea lui;

```
MINGW64/c/Users/User/Desktop/GIT/TPA16
User@DESKTOP-N09540S MINGW64 ~
$ cd Desktop/GIT

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git config --global user.name "Bogdan"

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git config --global user.email bogdan.ardelean29@yahoo.com

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ git clone https://github.com/arde29/TPA16.git
Cloning into 'TPA16'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT
$ cd TPA16

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ git add readme.txt

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ |
```

15. Efectuează commit pentru a salva modificările;

```
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ git commit -m "Commit punct 15"
[main 85985e0] Commit punct 15
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 readme.txt

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ |
```

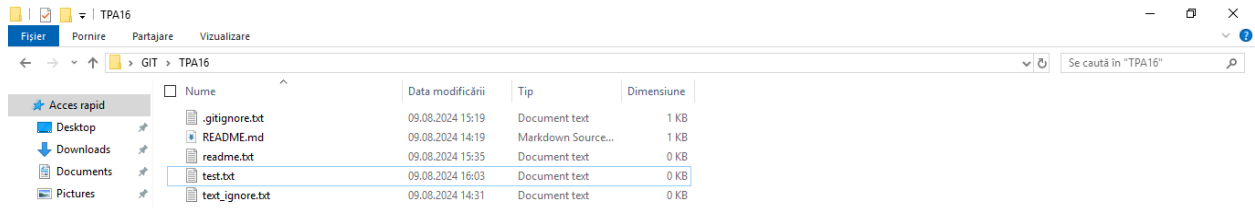
16. Creează un branch develop și comută la acesta folosind comanda checkout;

```
User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ git branch develop

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ git checkout develop
Switched to branch 'develop'

User@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ |
```

17. Creează un fișier gol test.txt;



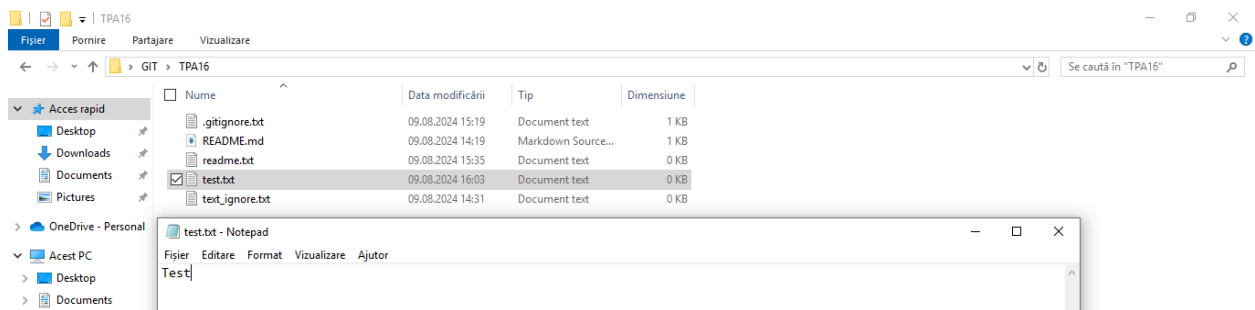
18. Pregătește fișierul test.txt pentru commit prin indexarea lui;

```
user@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ git add test.txt
user@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$
```

19. Efectuează commit pentru a salva modificările;

```
user@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ git commit -m "Commit punct 19"
[develop 2c8886b] Commit punct 19
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt
user@DESKTOP-N09540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$
```

20. Modifică fișierul test.txt;



21. Verifică modificările prin comanda git status;

```

User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ git status
On branch develop
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   test.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:   test.txt

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

```

22. Pregătește fișierul test.txt pentru commit prin indexarea lui;

```

User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ git add test.txt
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ |

```

23. Efectuează commit pentru a salva modificările;

```

User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ git commit -m "Commit punct 23"
[develop f150968] Commit punct 23
 1 file changed, 1 insertion(+)
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ |

```

24. Fuzionează (merge) branch-ul develop cu main (sau master, dacă nu există main);

```

User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (develop)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ git merge develop
Updating 85985e0..f150968
Fast-forward
 test.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 test.txt
User@DESKTOP-ND9540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ |

```

25. Verifică commit-urile folosind comanda git log.



```
User@DESKTOP-NO9540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ git log
commit f150968b2ff25044acfa5a28586c5b07fde718c6 (HEAD -> main, develop)
Author: Bogdan <bogdan.ardelean29@yahoo.com>
Date: Fri Aug 9 16:12:47 2024 +0300

    Commit punct 23

commit 2c8886b9ebd9d76777fdd2f3d6c970c617c69da2
Author: Bogdan <bogdan.ardelean29@yahoo.com>
Date: Fri Aug 9 16:10:11 2024 +0300

    Commit punct 19

commit 85985e0e455630b824d8add0b68dfe1b819d2efa
Author: Bogdan <bogdan.ardelean29@yahoo.com>
Date: Fri Aug 9 15:55:45 2024 +0300

    Commit punct 15

commit 42dc97b26b452abca0924f18f73417b0a54b1f55 (origin/main, origin/HEAD)
Author: arde29 <arde29@gmail.com>
Date: Fri Aug 9 11:53:30 2024 +0300

    Initial commit

User@DESKTOP-NO9540S MINGW64 ~/Desktop/GIT/TPA16 (main)
$ |
```