Ingeniera de Software 3

TP 1: Git basico

4.1: Instalar git.

Ya a git lo tenia instalado por lo que no muestro screenshot. Uso Git Bash ya que me da una experencia mas similar a linux.

4.2: Creamos e inicializamos el repositorio, tambien modificamos el archivo "Readme.md

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~ (master)
$ cd Documents/Ing\ de\ Soft\ 3

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/Ing de Soft 3 (master)
$ git init
Reinitialized existing Git repository in C:/Users/Nico/Documents/Ing de Soft 3/.
git/

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/Ing de Soft 3 (master)
$ echo "Ingeniera de Software 3" > Readme.md

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/Ing de Soft 3 (master)
$ git commit -m "First commit"
On branch master
```
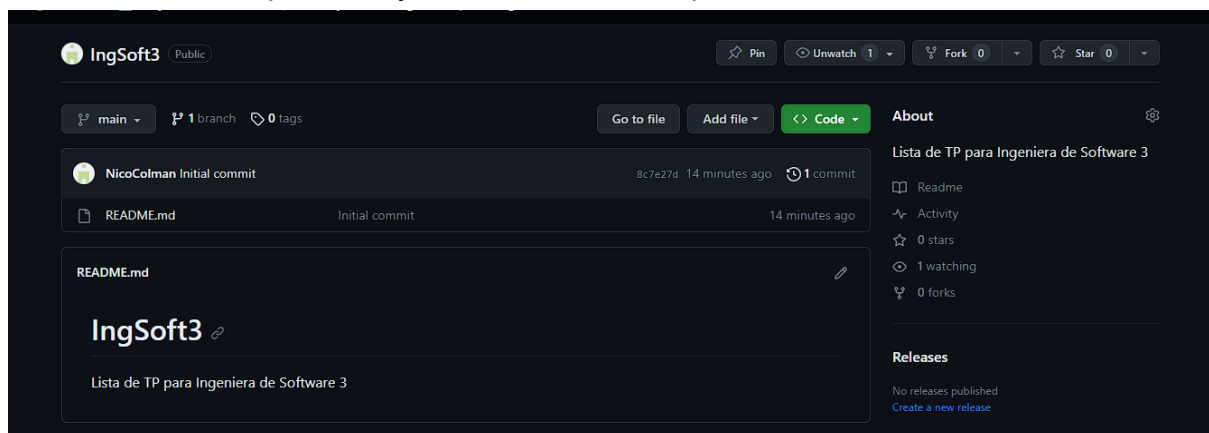
4.3: Instalar Notepad++ pero prefiero usar VSCode para edicion.

4.4: Creamos el repositorio y lo clonamos a la repo remota

Cambiamos la descripcion del "Readme.md" y creamos el .gitignore

Commiteamos y pusheamos

4.5: Hacemos lo mismo de vuelta

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~ (master)
$ cd Documents/IngSoft3/
IngSoft3/ tp1repo2/

Nico@DESKTOP-MDI8QUJ MINGW64 ~ (master)
$ cd Documents/IngSoft3/tp1repo2/

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (master)
$ echo "Repo 2" > README.md

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (master)
$ git remote add origin https://github.com/NicoColman/Prueba-2.git

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (master)
$ echo .gitignore
.gitignore

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (master)
$ git init
Initialized empty Git repository in C:/Users/Nico/Documents/IngSoft3/tp1repo2/.g
it/

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (master)
$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
        add

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (master)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the nex
t time Git touches it

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (master)
$ git commit -m "Commit"
[master (root-commit) eedcae6] Commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
```

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 216 bytes | 216.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/NicoColman/Prueba-2.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

4.6: Creamos nueva rama, modificamos el "README.md y pusheamos

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git branch -M TP

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (TP)
$ echo "Rama 2" >> README.md

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (TP)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the nex
t time Git touches it

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (TP)
$ git commit -m "Rama 2"
[TP 90c3d9f] Rama 2
1 file changed, 1 insertion(+)

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (TP)
$ git push -u origin TP
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 252 bytes | 252.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'TP' on GitHub by visiting:
remote:        https://github.com/NicoColman/Prueba-2/pull/new/TP
remote:
To https://github.com/NicoColman/Prueba-2.git
 * [new branch]      TP -> TP
branch 'TP' set up to track 'origin/TP'.

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (TP)
```

4.7: Hacemos merge FF

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (TP)
$ git checkout main
Switched to a new branch 'main'
branch 'main' set up to track 'origin/main'.

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git merge TP
Updating eedcae6..90c3d9f
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git branch -d TP
Deleted branch TP (was 90c3d9f).

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git log
commit 90c3d9fe7672434c4e0b5899b7c47584c64cbb93 (HEAD -> main, origin/TP)
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 18:04:46 2023 -0300

    Rama 2

commit eedcae6c5a2234f58ffcded499868a63386d8d4f (origin/main)
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 17:58:59 2023 -0300

    Commit

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$
```

Ahora merge no FF


```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git merge --no-ff tp
Merge made by the 'ort' strategy.
 README.md | 2 ++
 1 file changed, 2 insertions(+)

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git log
commit 0c6dd5ae6403d0580a269b84aa38654a015de735 (HEAD -> main)
Merge: eedcae6 ad81dc6
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 18:15:11 2023 -0300

    Merge branch 'tp'
    merge no-ff

commit ad81dc60fe5921b2eb63d61e9e0cf738cff4c223 (origin/tp, tp)
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 18:14:33 2023 -0300

    commit

commit 90c3d9fe7672434c4e0b5899b7c47584c64cbb93
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 18:04:46 2023 -0300

    Rama 2

commit eedcae6c5a2234f58ffcded499868a63386d8d4f (origin/main)
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 17:58:59 2023 -0300
:...skipping...
commit 0c6dd5ae6403d0580a269b84aa38654a015de735 (HEAD -> main)
Merge: eedcae6 ad81dc6
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 18:15:11 2023 -0300

    Merge branch 'tp'
    merge no-ff

commit ad81dc60fe5921b2eb63d61e9e0cf738cff4c223 (origin/tp, tp)
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 18:14:33 2023 -0300

    commit

commit 90c3d9fe7672434c4e0b5899b7c47584c64cbb93
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 18:04:46 2023 -0300

    Rama 2

commit eedcae6c5a2234f58ffcded499868a63386d8d4f (origin/main)
Author: NicoColman <nicolman01@gmail.com>
Date:   Sat Oct 14 17:58:59 2023 -0300

    Commit
```



```
MINGW64:/c/Users/Nico/Documents/IngSoft3/tp1repo2

Merge branch 'tp'
# Please enter a commit message to explain why this merge is necessary,
# especially if it merges an updated upstream into a topic branch.
#
# Lines starting with '#' will be ignored, and an empty message aborts
# the commit.
merge no-ff
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
.git/MERGE_MSG[+] [unix] (18:15 14/10/2023)          7,12 All
-- INSERT --
```
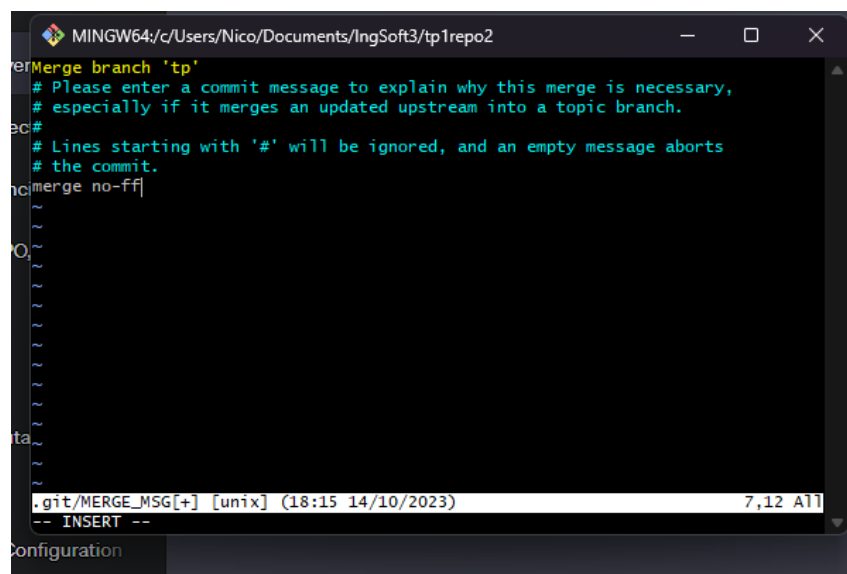
5.8: Configuro ByondCompare, creo branch y modifico los "README.md"

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git config --global diff.tool bc3

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git config --global difftool.bc3.path "C:/Program Files/Beyond Compare 4/BComp
.exe"

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git config --global merge.tool bc3

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git config --global mergetool.bc3.path "C:/Program Files/Beyond Compare 4/BCom
p.exe"

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git config --global mergetool.prompt false

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git config --global difftool.prompt false

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git branch -M ConflictBranch

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (ConflictBranch)
$ echo "Conflict" > README.md
```

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (ConflictBranch)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the nex
t time Git touches it

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (ConflictBranch)
$ git commit -m "Conflict"
[ConflictBranch 13d870c] Conflict
 1 file changed, 1 insertion(+), 3 deletions(-)

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (ConflictBranch)
$ git checkout main
Switched to a new branch 'main'
branch 'main' set up to track 'origin/main'.

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ echo "Conflict2" > README.md

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
g
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (main)
$ git commit -m "Conflict2"
[main 5e4edf0] Conflict2
 1 file changed, 1 insertion(+), 1 deletion(-)
```

Hacemos una comparacion entre los dos commits usando los SHA

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/tp1repo2 (ConflictBranch)
$ git difftool 13d870c3e3de9f9eda2f76eeb59e733129d1b6bb 5e4edf0bb3cd6b563f92b12c
1d0b813ef1bd45c8
```
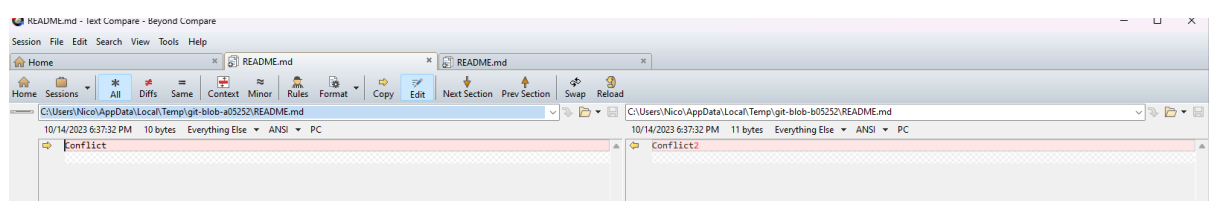
Intentamos mergear y resolvemos los conflictos con mergetool
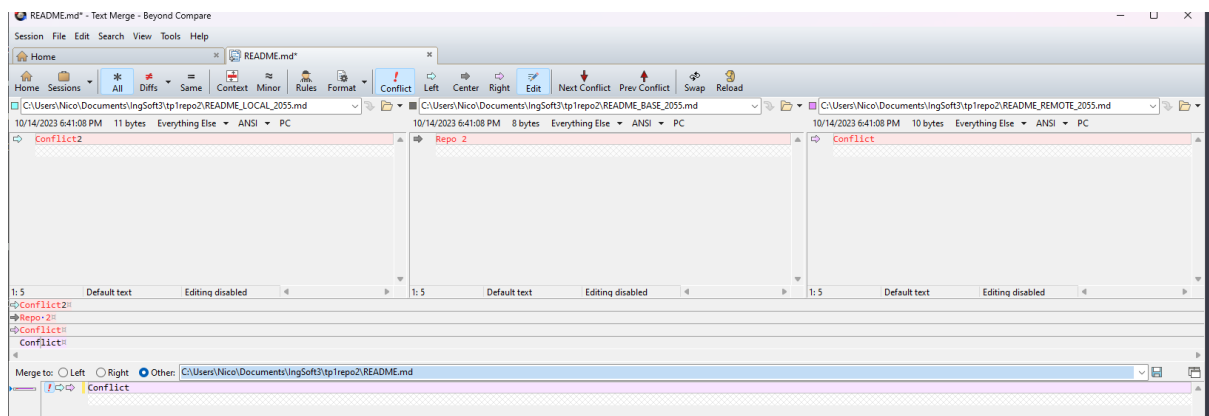
Resolvemos los conflictos y pusheamos

5.9: Creamos un pull request:

10:

Introduction Sequence

A nicely paced introduction to the majority of git commands

1: Introduction to Git Commits

Ramping Up

The next serving of 100% git awesomes-ness. Hope you're hungry