

EXERCÍCIOS – GIT

ORIENTAÇÕES

Siga o roteiro abaixo para execução das atividades propostas. Para enviar os exercícios você deve tirar um print da ETAPA 1, ETAPA 2 e ETAPA 3 e anexar o documento em PDF para avaliação.

Não esqueça de fazer as configurações iniciais de usuário, sempre que necessário: Nome, E-mail e Editor de Texto

ETAPA 1 – CRIAÇÃO E PREPARAÇÃO DE ARQUIVOS DO PROJETO

Nesta etapa iremos criar os arquivos do nosso projeto para verificarmos as funcionalidades do Git.

1. Crie uma pasta ExerciciosGit e inicialize um repositório Git no seu computador;
2. Adicione um arquivo nessa pasta com o nome README.md;
3. Adicione qualquer conteúdo nesse arquivo;
4. Faça um commit dessas alterações;
5. Verifique o status e veja se existem mudanças para serem "comitadas";

ETAPA 2 - ALTERAÇÃO E MANIPULAÇÃO DE ARQUIVOS NO PROJETO

Nesta etapa iremos trabalhar com alguns comandos básicos no Git, verificando o workflow básico, alterações e gestão dos arquivos do nosso projeto. Observe que faremos bastante uso dos “branches” visto que é um conceito muito importante para o ambiente de desenvolvimento em equipe, possibilitando a você, avançar um pouco mais no controle das versões do seu projeto.

6. Crie uma branch chamada "develop";
7. Altere o arquivo README.md e adicione outro arquivo na pasta;
8. Verifique o status das mudanças;
9. Faça commit dessas mudanças na branch "develop";
10. Certifique-se que seu status esteja sem mudanças para serem "comitadas";
11. Faça novamente outra alteração no arquivo README.md;
12. Faça commit dessa alteração no branch "develop";
13. Certifique-se que seu status esteja sem mudanças para serem "comitadas";
14. Agora faça um merge da branch "develop" e "master";
15. Certifique-se que as alterações da branch "develop" estão na branch "master" através dos logs;
16. Vá novamente para a branch "develop" e crie uma branch chamada "feature", esta tarefa estará finalizada;

mentorama.

17. Altere uma linha no arquivo README.md e faça commit nessa nova branch;
18. Volte para a branch "develop" e crie mais uma branch, mas com o nome "feature2";
19. Altere o arquivo README.md na mesma linha da alteração feita na branch "feature";
20. Faça commit dessa alteração na branch "feature2";
21. Agora tente fazer merge das branches "feature" e "feature2" com a branch "develop";
22. Acontecerá propositalmente um conflito no arquivo README.md depois que realizar o merge da segunda branch;
23. Resolva esse conflito e verifique se ambas as alterações estão na branch "develop";
24. Por último, faça merge das branch "master" e "develop";

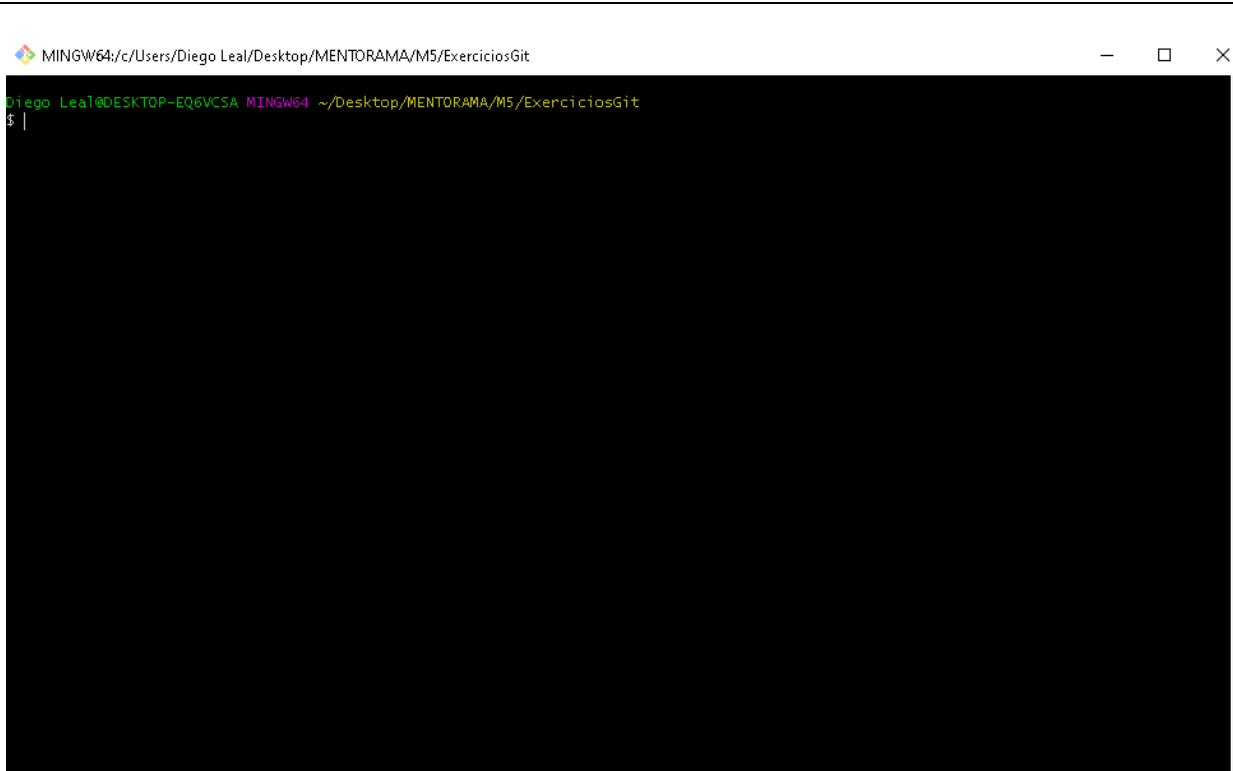
ETAPA 3 - ACESSO REMOTO

Nesta etapa, faremos a integração remota do nosso projeto, a partir do Github. Esta etapa é muito importante visto que muitos projetos de desenvolvedores têm sido disponibilizados no Github para construção de portfólio, de modo que as empresas possam conhecer um pouco do trabalho do desenvolvedor.

25. Crie um repositório no github e faça push;
26. Compartilhe o link do seu repositório
27. EXTRA: Criar um portfólio com seus principais projetos (opcional)

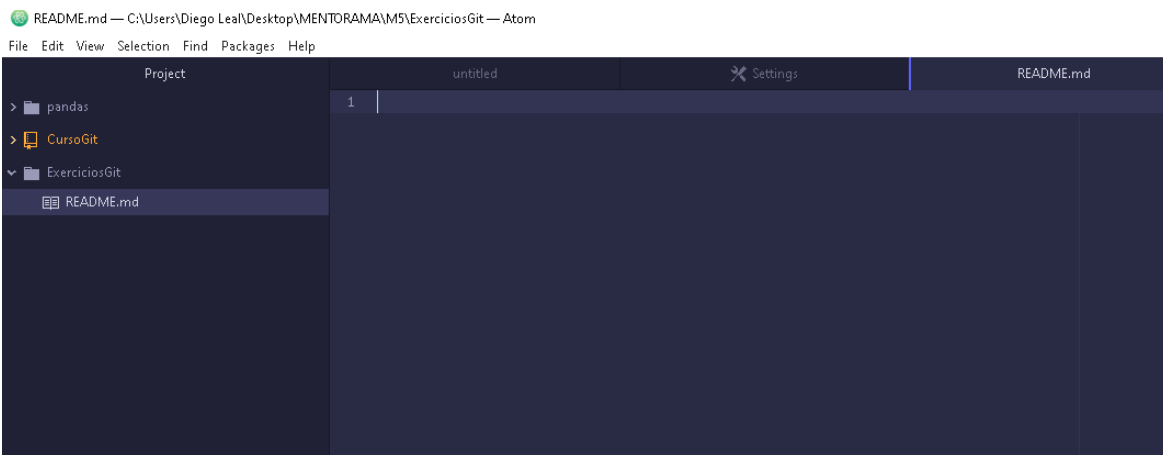
EXERCÍCIOS – GIT – RELATÓRIO DE ENTREGA

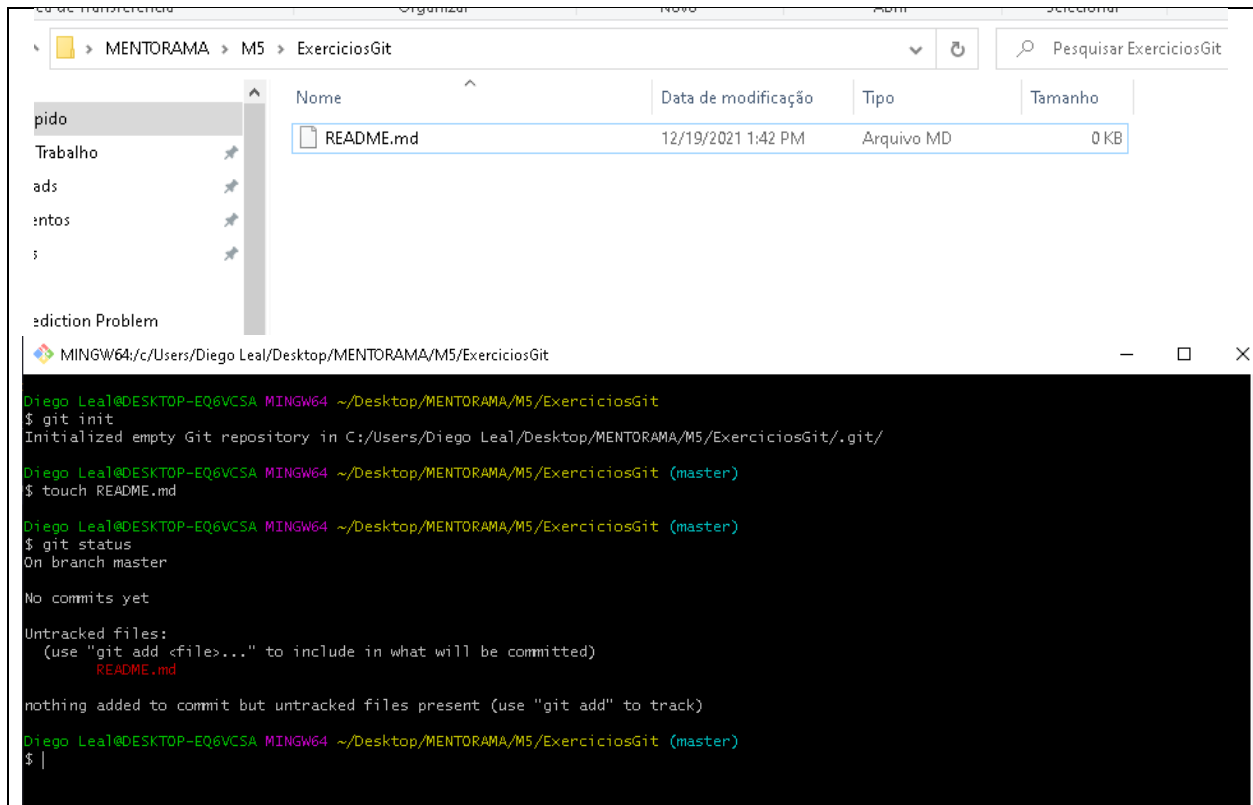
ETAPA 1



The screenshot shows a terminal window titled "MINGW64:/c/Users/Diego Leal/Desktop/MENTORAMA/M5/ExerciciosGit". The prompt is "Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit" followed by a dollar sign and a cursor.

1 - Bash inicializado dentro da pasta de destino

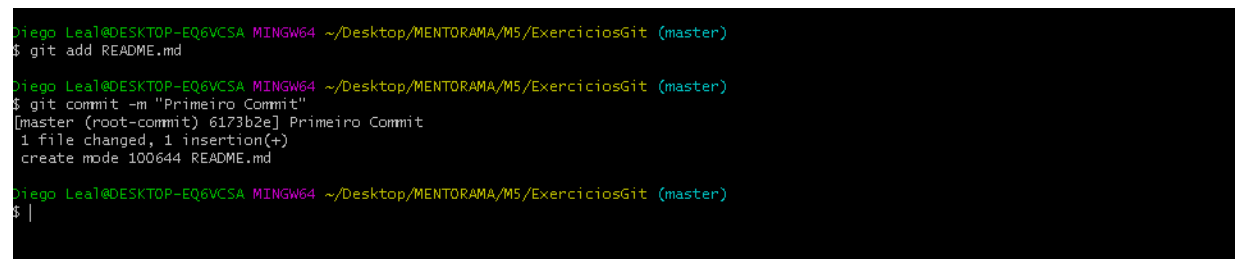




2- Arquivo Adicionado a Pasta



3- Conteúdo adicionado ao Arquivo



4- Commit do Arquivo

```
Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git status
On branch master
nothing to commit, working tree clean

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ |
```

5- Status verificado

ETAPA 2

Obs: Caso necessário você pode fazer mais que um print para indicar as atividades de toda etapa.

```
Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git branch develop

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ touch meuprograma.py

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (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:   README.md

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

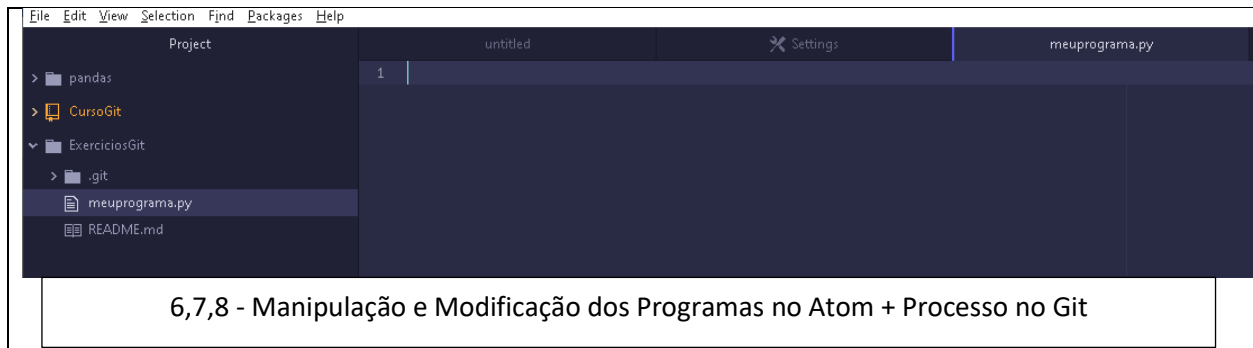
no changes added to commit (use "git add" and/or "git commit -a")

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ |
```

mentorama - C:\Users\Diego Leal\Desktop\mentorama\m5\exerciciosgit - Atom

File Edit View Selection Find Packages Help

Project	untitled	Settings
<ul style="list-style-type: none"> pandas CursoGit ExerciciosGit <ul style="list-style-type: none"> .git meuprograma.py README.md 	<ol style="list-style-type: none"> Adicionando conteúdo a este arquivo... Alteração realizada de acordo... 	



```
Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (master)
$ git checkout develop
Switched to branch 'develop'
M README.md

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git add .
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
  add

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git add .
$ git commit -m "Segundo Commit"
error: pathspec 'm' did not match any file(s) known to git
error: pathspec 'Segundo Commit' did not match any file(s) known to git

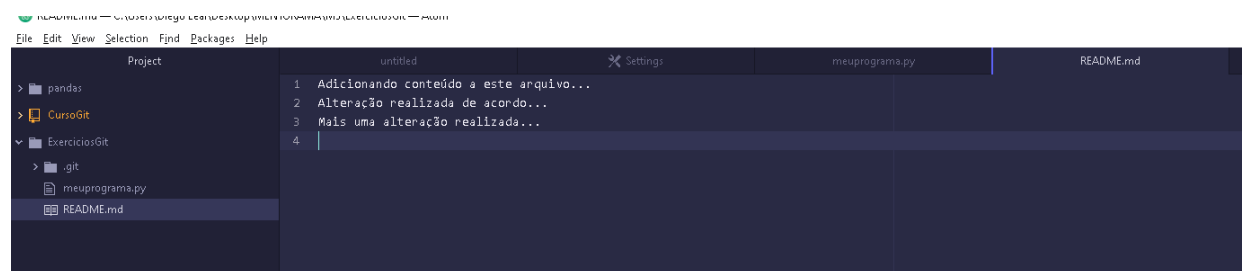
Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git commit -m "Segundo Commit"
[develop 0a425af] Segundo Commit
2 files changed, 1 insertion(+)
create mode 100644 meuprograma.py

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git status
On branch develop
nothing to commit, working tree clean

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git commit -am "Terceiro Commit"
[develop 700887b] Terceiro Commit
1 file changed, 1 insertion(+)

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git status
On branch develop
nothing to commit, working tree clean

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ !
```



File Edit View Selection Find Packages Help

Project untitled Settings meuprograma.py README.md

> pandas

> CursoGit

> ExerciciosGit

> .git

meuprograma.py

README.md

1 Adicionando conteúdo a este arquivo...

2 Alteração realizada de acordo...

3 Alteração na mesma linha...

4

```
Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (master)
$ git merge develop master
Updating 6173b2e..700887b
Fast-forward
 README.md      | 2 ++
 meuprograma.py | 0
 2 files changed, 2 insertions(+)
 create mode 100644 meuprograma.py

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (master)
$ git log
commit 700887b26247c6b4b7e44d4d8231dd6f766623a21 (HEAD -> master, develop)
Author: Diego Leal <lealexpersecurity@gmail.com>
Date:   Sun Dec 19 14:15:42 2021 -0300

    Terceiro Commit

commit 0a425af90991cf33cd23c4bbeb89169bcf7242040
Author: Diego Leal <lealexpersecurity@gmail.com>
Date:   Sun Dec 19 14:11:43 2021 -0300

    Segundo Commit

commit 6173b2e2eeb4ecb825dde29e1af52d120f863640
Author: Diego Leal <lealexpersecurity@gmail.com>
Date:   Sun Dec 19 13:52:27 2021 -0300

    Primeiro Commit

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (master)
$ git checkout develop
Switched to branch 'develop'

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git branch feature

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git checkout feature
Switched to branch 'feature'

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (feature)
$ git commit -m 'Quarto Commit'
(feature 809969f) Quarto Commit
1 file changed, 1 insertion(+)

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (feature)
$ git checkout develop
Switched to branch 'develop'

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git branch feature2

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git commit -m 'Quinto Commit'
[develop 8ffa22c] Quinto Commit
1 file changed, 1 insertion(+), 1 deletion(-)

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop)
$ git merge feature2 develop
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/MS/ExerciciosGit (develop/MERGING)
$
```

14,15,16,17,18,19,20,21,22 - Manipulação e Modificação dos Programas no Atom + Processo no Git

```
Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop|MERGING)
$ git diff feature2 feature
diff --git a/README.md b/README.md
index 2cca256..30f0ff8 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1,4 @@
-Adicionando conteúdo a este arquivo...
+Alteração realizada de acordo...
+Mais uma alteração realizada...
+Vamos realizar uma outra alteração

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop|MERGING)
$ git add .

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop|MERGING)
$ git commit -m "Sexto Commit"
[develop 9cab587] Sexto Commit

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop)
$ git merge feature2
Already up to date.

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop)
$ checkout develop
bash: checkout: command not found

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop)
$ git checkout develop
Already on 'develop'

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop)
$ git merge feature2 develop
Already up to date.

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop)
$ git status
On branch develop
nothing to commit, working tree clean
```



```

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop)
$ git log
commit 9cab587cbb7f0d9ad940caea5dd4ba8f3b7f5d50 (HEAD -> develop)
Merge: 8ffa22c 809969f
Author: Diego Leal <lealexpertsecurity@gmail.com>
Date: Sun Dec 19 14:40:39 2021 -0300

    Sexto Commit

commit 8ffa22c6e72ba8c7508624bcd67e706ec48ed0af
Author: Diego Leal <lealexpertsecurity@gmail.com>
Date: Sun Dec 19 14:30:29 2021 -0300

    Quinto Commit

commit 809969fccd8f8efba7883f6c975c6199c7749830 (feature)
Author: Diego Leal <lealexpertsecurity@gmail.com>
Date: Sun Dec 19 14:23:41 2021 -0300

    Quarto Commit

commit 700887b28247ccb4b7a44d2d823bd6f760621a22 (master, feature2)
Author: Diego Leal <lealexpertsecurity@gmail.com>
Date: Sun Dec 19 14:15:42 2021 -0300

    Terceiro Commit

commit 0a425af90991cf3cd23c4bbeb89169bcf7242040
Author: Diego Leal <lealexpertsecurity@gmail.com>
Date: Sun Dec 19 14:11:43 2021 -0300

    Segundo Commit

commit 6173b2e2eeb4ecb825dde29e1af52d120f8636a0
Author: Diego Leal <lealexpertsecurity@gmail.com>
Date: Sun Dec 19 13:52:27 2021 -0300

    Primeiro Commit

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop)
$ checkout master
bash: checkout: command not found

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (develop)
$ git checkout master
Switched to branch 'master'

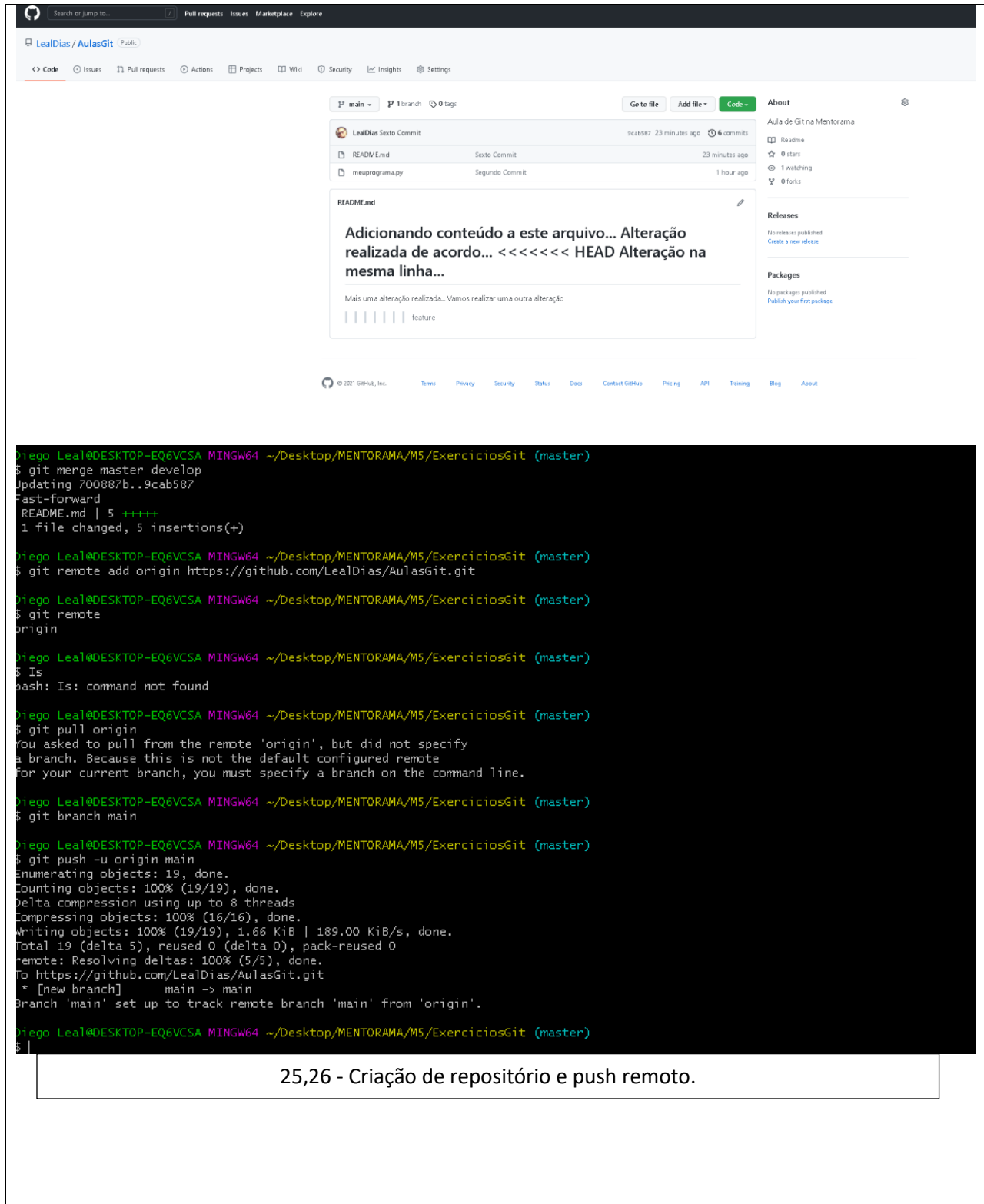
Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git merge master develop
Updating 700887b..9cab587
Fast-forward
 README.md | 5 +++++
 1 file changed, 5 insertions(+)

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ !

```

23,24 - Processo no Git

ETAPA 3



The screenshot displays a GitHub repository interface for 'LealDias/AulasGit'. The repository is public and has 6 commits. The commit history shows a sequence of updates to the README.md file. The main branch is currently at commit 700887b..9cab587. The repository is linked to a local directory at ~/Desktop/MENTORAMA/M5/ExerciciosGit.

Below the repository view, a terminal window shows the following commands and output:

```

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git merge master develop
Updating 700887b..9cab587
Fast-forward
 README.md | 5 +++++
 1 file changed, 5 insertions(+)

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git remote add origin https://github.com/LealDias/AulasGit.git

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git remote
origin

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ ls
bash: ls: command not found

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git pull origin
You asked to pull from the remote 'origin', but did not specify
a branch. Because this is not the default configured remote
for your current branch, you must specify a branch on the command line.

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git branch main

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$ git push -u origin main
Enumerating objects: 19, done.
Counting objects: 100% (19/19), done.
Delta compression using up to 8 threads
Compressing objects: 100% (16/16), done.
Writing objects: 100% (19/19), 1.66 KiB | 189.00 KiB/s, done.
Total 19 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), done.
To https://github.com/LealDias/AulasGit.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

Diego Leal@DESKTOP-EQ6VCSA MINGW64 ~/Desktop/MENTORAMA/M5/ExerciciosGit (master)
$
  
```

25,26 - Criação de repositório e push remoto.