SOFTWARE ENGINEERING

lab1

Anas jala

الايميل والاسم

```
C:\Users\Thinkpad
λ git config --global user.email
anasxanoos@gmail.com

C:\Users\Thinkpad
λ git config --global user.name
Anas Galal
```

```
git config --global user.email
git config --global user.name
```

تعريف الريبو والتحقق من الحالة

```
D:\
λ cd Software_Engineering_AnasGala

D:\Software_Engineering_AnasGala
λ git init
Initialized empty Git repository in D:/Software_Engineering_AnasGala/.git/

D:\Software_Engineering_AnasGala (master)
λ git status
On branch master

No commits yet

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

```
git init
git status
```

اضافة وحفظ تغييرات

```
D:\Software_Engineering_AnasGala (master)
λ git add Lab1

D:\Software_Engineering_AnasGala (master)
λ cd Lab1

D:\Software_Engineering_AnasGala\Lab1 (master)
λ echo. > file.txt

D:\Software_Engineering_AnasGala\Lab1 (master)
λ git add file.txt

D:\Software_Engineering_AnasGala\Lab1 (master)
λ git commit -m "Software_Engineering_AnasGala"
[master (root-commit) 40f6433] Software_Engineering_AnasGala
 1 file changed, 1 insertion(+)
 create mode 100644 Lab1/file.txt
```

```
git add lab1
echo .>file.txt
git commit -m “Software_E_Anas”
```

اظهار السجلات والكومت للرجوع للاي دي

```
D:\Software_Engineering_AnasGala\Lab1 (HEAD detached at 40f6433)
λ git log
commit 40f643353781d62092b759047dc1e25ae0657b90 (HEAD, master)
Author: Anas Galal <anasxanoos@gmail.com>
Date:   Sun Jul 20 07:08:57 2025 +0300

    Software_Engineering_AnasGala

D:\Software_Engineering_AnasGala\Lab1 (HEAD detached at 40f6433)
λ git checkout "40f643353781d62092b759047dc1e25ae0657b90"
HEAD is now at 40f6433 Software_Engineering_AnasGala
```

```
git log
git checkout
```

استعلام الفروع

```
D:\Software_Engineering_AnasGala\Lab1 (HEAD detached at 40f6433)
λ git branch
* (HEAD detached at 40f6433)
  master

D:\Software_Engineering_AnasGala\Lab1 (HEAD detached at 40f6433)
λ git branch test_branch
```

```
git branch
git branch test_branch
```

سوتش وتشك اوت

```
D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git switch -c test_branch
fatal: a branch named 'test_branch' already exists

D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git checkout -b test_branch
fatal: a branch named 'test_branch' already exists
```

```
git switch -c test_branch
git checkout -b test_branch
```

الدمج والملفات المراقبة

```
D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git merge test_branch
Already up to date.

D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git ls-files
file.txt
```

```
git merge test_branch
git ls-files
```

```
D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git clean -dn

D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git clean -df

D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git restore file.txt

D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git restore .
```

```
git clean -dn

git clean -df

git restore .
```

```
D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git rm file.txt
error: the following file has changes staged in the index:
    Lab1/file.txt
(use --cached to keep the file, or -f to force removal)

D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git reset file.txt
Unstaged changes after reset:
M       Lab1/file.txt

D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git status
On branch test_branch
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:   file.txt

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

D:\Software_Engineering_AnasGala\Lab1 (test_branch)
λ git reset file.txt
Unstaged changes after reset:
M       Lab1/file.txt
```

```
git rm file.txt

git reset file.txt
```

THANK YOU