

**AIN SHAMS UNIVERSITY  
FACULTY OF ENGINEERING**

Credit Hours Engineering Programs - CHEP  
Computer Engineering and Software Systems  
Engineering Programs



# **CSE233**

## **Agile Software Engineering**

### **FALL 2022**

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# Agile Assignment

Part1:

## Assignment 2

- In your directory , create two files.
- Check the status of each file.
- -remove file , rename other file
- Show the log,

```
koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ touch file1.txt file2.txt

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file1.txt
        file2.txt

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

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ rm file1.txt

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ mv file2.txt file22.txt

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ ls
file22.txt

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git log
fatal: your current branch 'master' does not have any commits yet

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ |
```

Apply 4 commits on the files:

```
koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git log
commit 39d001a7cedcb198160fbec1e0913813c9b365d8 (HEAD -> master)
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:46:22 2022 +0200

    fourth commit

commit 763fb980ccb49b0199a3385a104d2f087925b16b
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:45:52 2022 +0200

    third commit

commit 6a4a8b38afa001652dc5f5ecd1f44bc1e9445911
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:45:03 2022 +0200

    second commit

commit 1926401d5147ac7028490524f2e51eaca5628a69
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:44:01 2022 +0200

    first commit

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ |
```

- How to delete a commit ?

Using the reset command for ex: `git reset <SHA of the commit before >`

So if we want to delete fourth commit we write `:git reset <SHA of third commit>`

`$ git reset 763fb980ccb49b0199a3385a104d2f087925b16b ->` this deletes the fourth commit

- How to undo a certain command?

Using the revert command for example : `git revert <SHA>` , sha is the commit code

For example if we want to undo the third commit we write :

`$git revert 763fb980ccb49b0199a3385a104d2f087925b16b`

- How to modify only the last commit?

We can use the git amend command

For ex if we want to commit staged modification or committing files to the last commit we can use `git - -amend`

- Deleting the fourth commit

Before:

```
koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git log
commit 39d001a7cedcb198160fbec1e0913813c9b365d8 (HEAD -> master)
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:46:22 2022 +0200

    fourth commit

commit 763fb980ccb49b0199a3385a104d2f087925b16b
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:45:52 2022 +0200

    third commit

commit 6a4a8b38afa001652dc5f5ecd1f44bc1e9445911
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:45:03 2022 +0200

    second commit

commit 1926401d5147ac7028490524f2e51eaca5628a69
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:44:01 2022 +0200

    first commit

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ |
```

After:

```
koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git reset 763fb980ccb49b0199a3385a104d2f087925b16b

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git log
commit 763fb980ccb49b0199a3385a104d2f087925b16b (HEAD -> master)
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:45:52 2022 +0200

    third commit

commit 6a4a8b38afa001652dc5f5ecd1f44bc1e9445911
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:45:03 2022 +0200

    second commit

commit 1926401d5147ac7028490524f2e51eaca5628a69
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:44:01 2022 +0200

    first commit
```

- Reverting the third commit :

- Before :

```
koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git log
commit 92f34af4148f906546e324ea1df03e301375244b (HEAD -> master)
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:20:16 2022 +0200

    third commit

commit 978a0641a04a12ac8cca0e76ed3b7db12f4b3f56
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:19:35 2022 +0200

    second commit

commit 1926401d5147ac7028490524f2e51eaca5628a69
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:44:01 2022 +0200

    first commit

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
```

- After:

```
koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git revert 92f34af4148f906546e324ea1df03e301375244b
[master 1e39c1d] Revert "third commit"
1 file changed, 1 insertion(+), 1 deletion(-)

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git log
commit 1e39c1d0e17cb32a9bb55bfbc1fefc0439497eaa (HEAD -> master)
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:20:45 2022 +0200

    Revert "third commit"

    This reverts commit 92f34af4148f906546e324ea1df03e301375244b.

commit 92f34af4148f906546e324ea1df03e301375244b
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:20:16 2022 +0200

    third commit

commit 978a0641a04a12ac8cca0e76ed3b7db12f4b3f56
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:19:35 2022 +0200

    second commit

commit 1926401d5147ac7028490524f2e51eaca5628a69
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:44:01 2022 +0200

    first commit

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ |
```

- Amend: git commit --amend

➤ Before :

➤

```
koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git log
commit 92f34af4148f906546e324ea1df03e301375244b (HEAD -> master)
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:20:16 2022 +0200

    third commit

commit 978a0641a04a12ac8cca0e76ed3b7db12f4b3f56
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:19:35 2022 +0200

    second commit

commit 1926401d5147ac7028490524f2e51eaca5628a69
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:44:01 2022 +0200

    first commit

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
```

➤ After:

```
koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git commit --amend
[master e1ad3c2] third commit
Date: Thu Dec 1 22:20:16 2022 +0200
1 file changed, 2 insertions(+), 1 deletion(-)

koukou@DESKTOP-TPHQ3HJ MINGW64 /d/semester 7/agile/assignment2/assig (master)
$ git log
commit e1ad3c2ea8fe6f4074e029f98ef8478f39fcf481 (HEAD -> master)
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:20:16 2022 +0200

    third commit

commit 978a0641a04a12ac8cca0e76ed3b7db12f4b3f56
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 22:19:35 2022 +0200

    second commit

commit 1926401d5147ac7028490524f2e51eaca5628a69
Author: kiro1973 <kirogeorge541@gmail.com>
Date: Thu Dec 1 20:44:01 2022 +0200

    first commit
```