Esercizio di risoluzione di un merge conflict

Il tempo massimo in laboratorio per questo esercizio è di *20 minuti*. Se superato, sospendere l'esercizio e riprenderlo per ultimo!

Si visiti https://github.com/APICe-at-DISI/OOP-git-merge-conflict-test. Questo repository contiene due branch: master e feature

Per ognuna delle seguenti istruzioni, si annoti l'output ottenuto. Prima di eseguire ogni operazione sul worktree o sul repository, si verifichi lo stato del repository con git status.

1. Si cloni localmente il repository

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test> git clone https://github.com/APICe-at-DISI/OOP-git-merge-conflict-test.git
Cloning into 'OOP-git-merge-conflict-test'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 12 (delta 1), reused 1 (delta 1), pack-reused 8 (from 1)
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (2/2), done.
```

2. Ci si assicuri di avere localmente entrambi i branch remoti

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\OOP-git-merge-conflict-test> git branch

* master

* bed943f (origin/feature) Print author information

| * 8e0f29c (HEAD -> master, origin/master, origin/HEAD) Change HelloWorld to print the number of available processors

|/

* d956df6 Create .gitignore

* 700ee0b Create HelloWorld
```

3. Si faccia il merge di feature dentro master, ossia: si posizioni la HEAD su master e da qui si esegua il merge di feature

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\00P-git-merge-conflict-test> git merge feature --no-edit
Auto-merging HelloWorld.java
```

```
CONFLICT (content): Merge conflict in HelloWorld.java
Automatic merge failed; fix conflicts and then commit the result.
```

- 4. Si noti che viene generato un merge conflict!
- 5. Si risolva il merge conflict come segue:
 - Il programma Java risultante deve stampare sia il numero di processori disponibili (funzionalità presente su master)
 che il nome dell'autore del file (funzionalità presente su feature)

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\OOP-git-merge-conflict-test>git merge feature --no-edit

Auto-merging HelloWorld.java

CONFLICT (content): Merge conflict in HelloWorld.java

Automatic merge failed; fix conflicts and then commit the result.
```

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\00P-git-merge-conflict-test> git add .\HelloWorld.java
```

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-
git-exercises\esercizio2test\00P-git-merge-conflict-test> git commit
[master 841f2e5] Merge branch 'feature'
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-
git-exercises\esercizio2test\00P-git-merge-conflict-test> git log --graph
    commit 841f2e5799fa003b32868c8f013efe4347ca9467 (HEAD -> master)
\ Merge: 8e0f29c bed943f
| | Author: RED-ITA <enricosalvagiani@gmail.com>
| Date: Tue May 27 20:13:33 2025 +0200
       Merge branch 'feature'
* commit bed943fbdd6ba94e64197448e4754a529d984e88 (origin/feature, feature)
| | Author: Danilo Pianini <danilo.pianini@gmail.com>
           Thu Oct 27 17:21:22 2016 +0200
Date:
       Print author information
* | commit 8e0f29c12e060f3bdc62540343eff3e473616d61 (origin/master,
origin/HEAD)
|/ Author: Danilo Pianini <danilo.pianini@gmail.com>
    Date: Thu Oct 27 17:19:05 2016 +0200
```

```
Change HelloWorld to print the number of available processors

* commit d956df66aeb0829f23b7b3d0d9a1c002c390f87f

| Author: Danilo Pianini <danilo.pianini@gmail.com>

| Date: Thu Oct 27 17:17:43 2016 +0200

| Create .gitignore
| :
```

6. Si crei un nuovo repository nel proprio github personale

```
https://github.com/RED-ITA/test_git.git
```

7. Si aggiunga il nuovo repository creato come **remote** e si elenchino i remote

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\00P-git-merge-conflict-test> git remote -v origin https://github.com/APICe-at-DISI/00P-git-merge-conflict-test.git (fetch) origin https://github.com/APICe-at-DISI/00P-git-merge-conflict-test.git (push)
```

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\00P-git-merge-conflict-test> git remote add personale https://github.com/RED-ITA/test_git.git
```

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\00P-git-merge-conflict-test> git remote -v origin https://github.com/APICe-at-DISI/00P-git-merge-conflict-test.git (fetch) origin https://github.com/APICe-at-DISI/00P-git-merge-conflict-test.git (push) personale https://github.com/RED-ITA/test_git.git (fetch) https://github.com/RED-ITA/test_git.git (push)
```

8. Si faccia push del branch master sul proprio repository

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\OOP-git-merge-conflict-test> git push personale master
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 16 threads
```

```
Compressing objects: 100% (11/11), done.
Writing objects: 100% (15/15), 1.56 KiB | 1.56 MiB/s, done.
Total 15 (delta 4), reused 10 (delta 2), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), done.
To https://github.com/RED-ITA/test_git.git

* [new branch] master -> master
```

9. Si setti il branch remoto master del nuovo repository come *upstream* per il proprio branch master locale

```
PS C:\Users\psalv\Documenti\java\esercizi_lab\pss-lab-git-exercises\pss-lab-git-exercises\pss-lab-git-exercises\esercizio2test\00P-git-merge-conflict-test> git branch --set-upstream-to=personale/master
branch 'master' set up to track 'personale/master'.
```