



**Politechnika
Śląska**

GIT

PPP / PAI / OirPOS

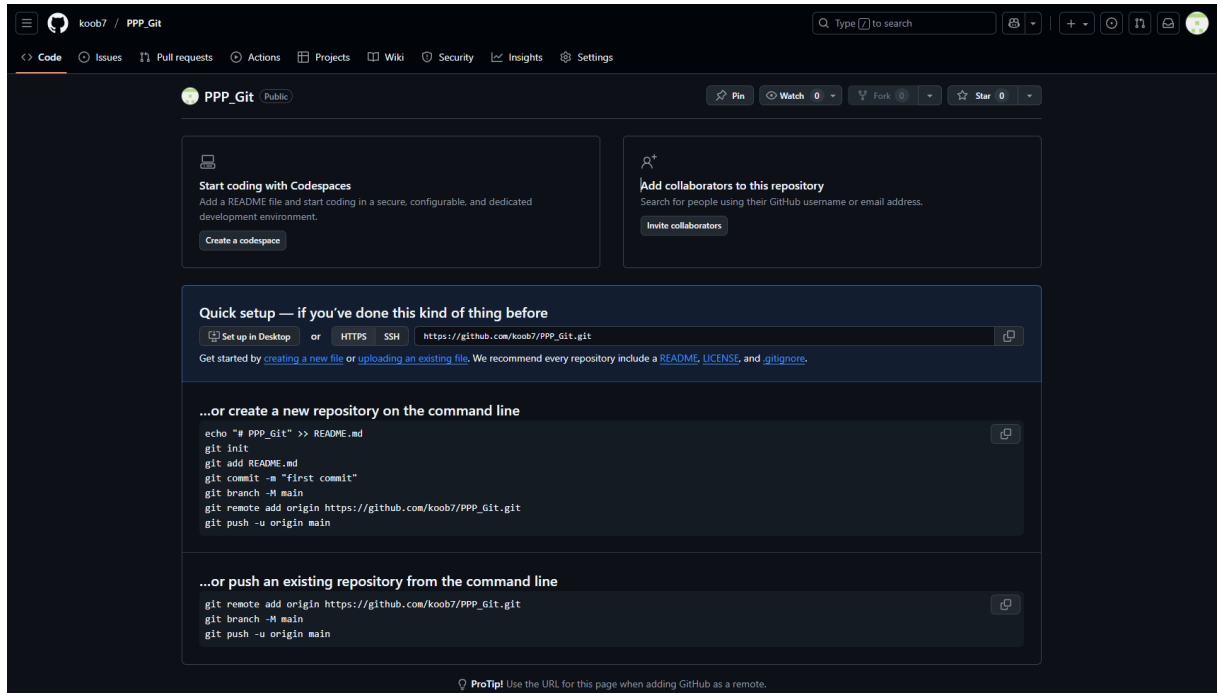
13.10.2025

Skład sekcji:
Konrad Kobielski
Jakub Skraba

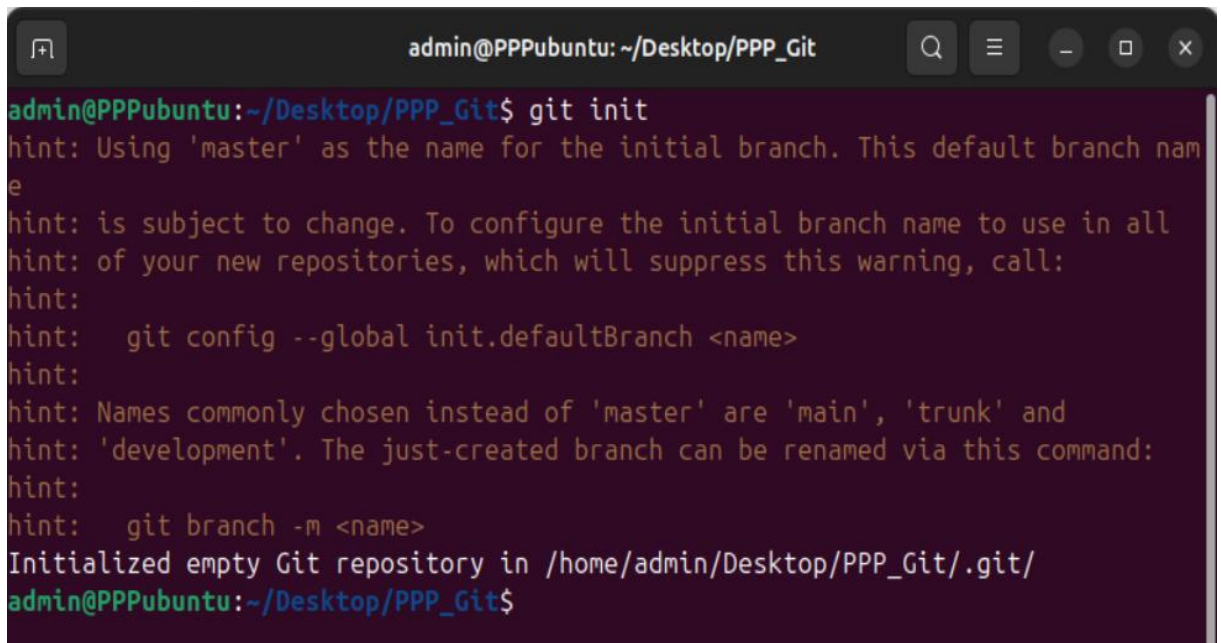
Zadania

Część 1

1. a, b, c, d, e



2. a, b, c



3. a, b, c, d, e,

```
admin@PPPubuntu:~/Desktop/PPP_Git$ touch plik.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ nano plik.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
    add
admin@PPPubuntu:~/Desktop/PPP_Git$ git add .
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   plik.txt

admin@PPPubuntu:~/Desktop/PPP_Git$ git commit -m "wiadomosc"
Author identity unknown

*** Please tell me who you are.

Run

    git config --global user.email "you@example.com"
    git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'admin@PPPubuntu.(none)')
admin@PPPubuntu:~/Desktop/PPP_Git$
```

f,g,

Zgłoszony błąd związany jest z brakiem konfiguracji konta użytkownika w Git.

Konfiguracja konta

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git config --global user.email "kobielus63@gmail.com"
admin@PPPubuntu:~/Desktop/PPP_Git$ git commit -m "wiadomosc"
[master (root-commit) 8f36a92] wiadomosc
 1 file changed, 1 insertion(+)
 create mode 100644 plik.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch master
nothing to commit, working tree clean
admin@PPPubuntu:~/Desktop/PPP_Git$
```

Po konfiguracji konta commit został poprawnie wykonany

4. a, b,

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git remote add origin https://github.com/koob7/PPP_Git.git
admin@PPPubuntu:~/Desktop/PPP_Git$ git push
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

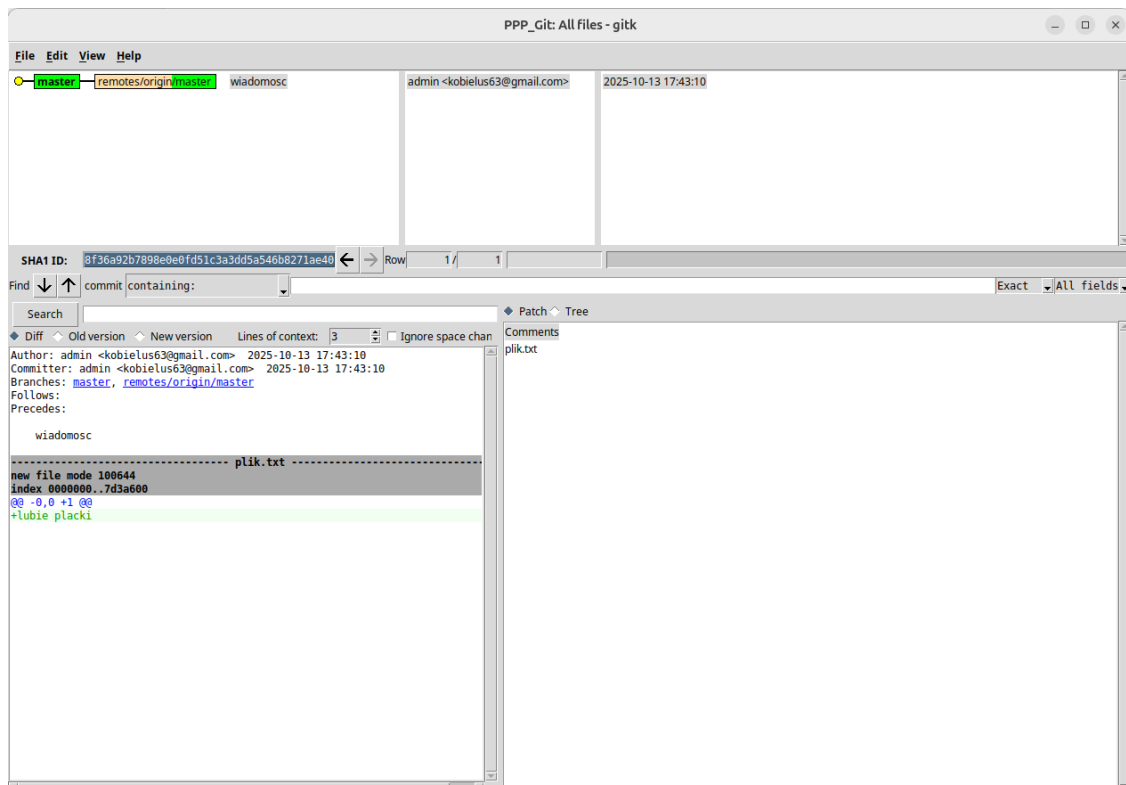
    git push --set-upstream origin master

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

admin@PPPubuntu:~/Desktop/PPP_Git$ git push -u origin master
Username for 'https://github.com': kobielus63@gmail.com
Password for 'https://kobielus63%40gmail.com@github.com':
remote: Invalid username or token. Password authentication is not supported for
Git operations.
fatal: Authentication failed for 'https://github.com/koob7/PPP_Git.git/'

admin@PPPubuntu:~/Desktop/PPP_Git$ git push -u origin master
Username for 'https://github.com': koob7
Password for 'https://koob7@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 220 bytes | 220.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/koob7/PPP_Git.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
admin@PPPubuntu:~/Desktop/PPP_Git$
```

5. a, b

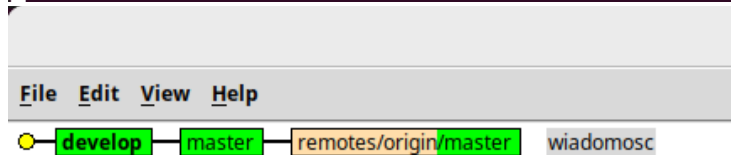


Część 2

1. a, b, c, d, e

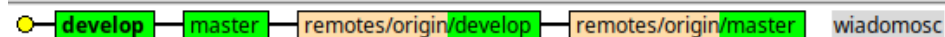
```
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout master
Already on 'master'
Your branch is up to date with 'origin/master'.
admin@PPPubuntu:~/Desktop/PPP_Git$ git branch develop
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout develop
Switched to branch 'develop'
admin@PPPubuntu:~/Desktop/PPP_Git$ gitk
```



f, g

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git push -u origin develop
Username for 'https://github.com': koob7
Password for 'https://koob7@github.com':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:      https://github.com/koob7/PPP_Git/pull/new/develop
remote:
To https://github.com/koob7/PPP_Git.git
 * [new branch]      develop -> develop
branch 'develop' set up to track 'origin/develop'.
```



2. a) a, b, c, d, e, f

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout develop
Already on 'develop'
Your branch is up to date with 'origin/develop'.
admin@PPPubuntu:~/Desktop/PPP_Git$ touch main.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ nano main.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ git add .
admin@PPPubuntu:~/Desktop/PPP_Git$ git commit -m "wiadomosc"
[develop 0c294c8] wiadomosc
 1 file changed, 1 insertion(+)
 create mode 100644 main.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ git push
Username for 'https://github.com': koob7
Password for 'https://koob7@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 280 bytes | 280.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/koob7/PPP_Git.git
 8f36a92..0c294c8  develop -> develop
```

b) a, b, c, d, e, f, g

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git config --global credential.helper store
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout develop
Already on 'develop'
Your branch is up to date with 'origin/develop'.
admin@PPPubuntu:~/Desktop/PPP_Git$ git branch feature_1
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout geature_1
error: pathspec 'geature_1' did not match any file(s) known to git
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout feature_1
Switched to branch 'feature_1'
admin@PPPubuntu:~/Desktop/PPP_Git$ nano main.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch feature_1
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:   main.txt

no changes added to commit (use "git add" and/or "git commit -a")
admin@PPPubuntu:~/Desktop/PPP_Git$ git add .
admin@PPPubuntu:~/Desktop/PPP_Git$ git commit -m "wiadomosc"
[feature_1 91900bf] wiadomosc
 1 file changed, 1 insertion(+)
admin@PPPubuntu:~/Desktop/PPP_Git$ git push
fatal: The current branch feature_1 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature_1

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

admin@PPPubuntu:~/Desktop/PPP_Git$ git push -u origin feature_1
Username for 'https://github.com': koob7
Password for 'https://koob7@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 289 bytes | 289.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
```


c) a, b, c, d, e, f, g

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
admin@PPPubuntu:~/Desktop/PPP_Git$ git branch feature_2
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout feature_2
Switched to branch 'feature_2'
admin@PPPubuntu:~/Desktop/PPP_Git$ nano main.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch feature_2
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:   main.txt

no changes added to commit (use "git add" and/or "git commit -a")
admin@PPPubuntu:~/Desktop/PPP_Git$ git add .
admin@PPPubuntu:~/Desktop/PPP_Git$ git commit -m "wiadomosc"
[feature_2 61795f5] wiadomosc
 1 file changed, 1 insertion(+)
admin@PPPubuntu:~/Desktop/PPP_Git$ git push
fatal: The current branch feature_2 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature_2

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

admin@PPPubuntu:~/Desktop/PPP_Git$ git push -u origin feature_2
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 290 bytes | 290.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature_2' on GitHub by visiting:
remote:   https://github.com/koob7/PPP_Git/pull/new/feature_2
remote:
To https://github.com/koob7/PPP_Git.git
 * [new branch]      feature_2 -> feature_2
```

d) a, b, c, d, e, f, g

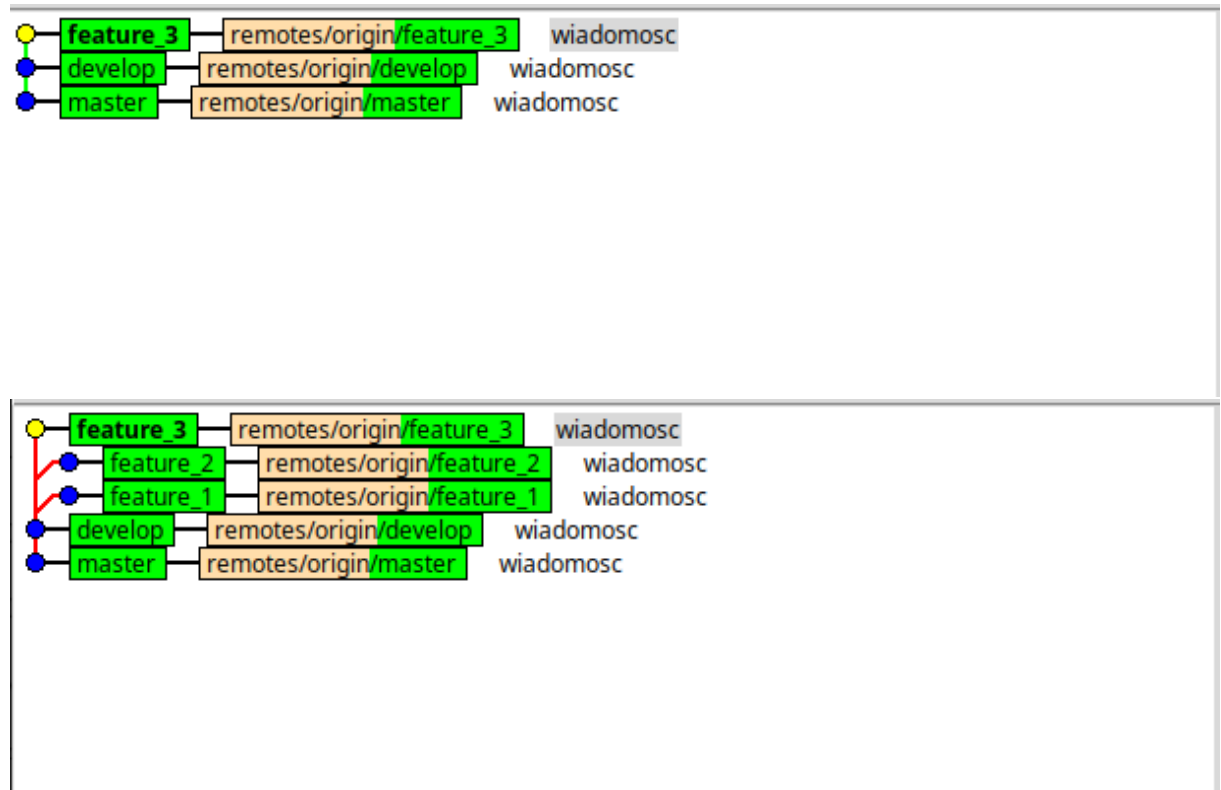
```
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
admin@PPPubuntu:~/Desktop/PPP_Git$ git branch feature_3
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout feature_3
Switched to branch 'feature_3'
admin@PPPubuntu:~/Desktop/PPP_Git$ nano main.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch feature_3
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:   main.txt

no changes added to commit (use "git add" and/or "git commit -a")
admin@PPPubuntu:~/Desktop/PPP_Git$ git add .
admin@PPPubuntu:~/Desktop/PPP_Git$ git commit -m "wiadomosc"
[feature_3 d14139c] wiadomosc
 1 file changed, 1 insertion(+)
admin@PPPubuntu:~/Desktop/PPP_Git$ git push -u origin feature_3
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 289 bytes | 289.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature_3' on GitHub by visiting:
remote:   https://github.com/koob7/PPP_Git/pull/new/feature_3
remote:
To https://github.com/koob7/PPP_Git.git
 * [new branch]      feature_3 -> feature_3
branch 'feature_3' set up to track 'origin/feature_3'.
admin@PPPubuntu:~/Desktop/PPP_Git$
```


e)

Każda gałąź przechowuje inną wersję pliku main.txt

f)



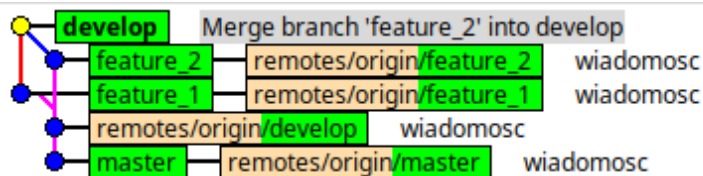
3. a, b, c, d, e

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
admin@PPPubuntu:~/Desktop/PPP_Git$ git merge feature_1
Updating 0c294c8..91900bf
Fast-forward
 main.txt | 1 +
 1 file changed, 1 insertion(+)
admin@PPPubuntu:~/Desktop/PPP_Git$ git merge feature_2
Auto-merging main.txt
CONFLICT (content): Merge conflict in main.txt
Automatic merge failed; fix conflicts and then commit the result.
```

f, g, h, i, j, k, l, m

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git mergetool
fatal: bad config line 14 in file /home/admin/.gitconfig
admin@PPPubuntu:~/Desktop/PPP_Git$ git config --global -e
fatal: bad config line 14 in file /home/admin/.gitconfig
admin@PPPubuntu:~/Desktop/PPP_Git$
admin@PPPubuntu:~/Desktop/PPP_Git$ git config --global -e
fatal: bad config line 14 in file /home/admin/.gitconfig
admin@PPPubuntu:~/Desktop/PPP_Git$ nano ~/.gitconfig
admin@PPPubuntu:~/Desktop/PPP_Git$ git mergetool
fatal: bad config line 14 in file /home/admin/.gitconfig
admin@PPPubuntu:~/Desktop/PPP_Git$ nano ~/.gitconfig
admin@PPPubuntu:~/Desktop/PPP_Git$ git mergetool
Merging:
main.txt

Normal merge conflict for 'main.txt':
  {local}: modified file
  {remote}: modified file
main.txt seems unchanged.
Was the merge successful [y/n]? y
admin@PPPubuntu:~/Desktop/PPP_Git$ git merge -continue
error: did you mean '--continue' (with two dashes)?
admin@PPPubuntu:~/Desktop/PPP_Git$ git merge --continue
[develop 7f7eb8a] Merge branch 'feature_2' into develop
admin@PPPubuntu:~/Desktop/PPP_Git$ gitk
```

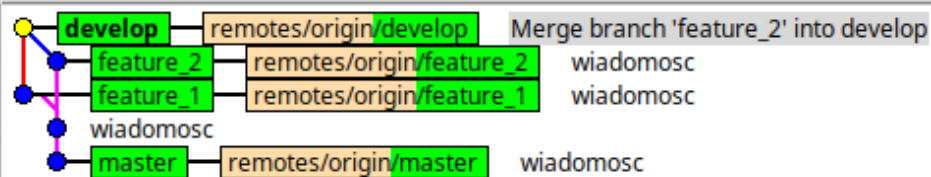


n, o, p

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git fetch
admin@PPPubuntu:~/Desktop/PPP_Git$ git pull
Already up to date.
admin@PPPubuntu:~/Desktop/PPP_Git$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 344 bytes | 344.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/koob7/PPP_Git.git
   0c294c8..7f7eb8a  develop -> develop
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch develop
Your branch is up to date with 'origin/develop'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    main.txt.orig
    main_BACKUP_11918.txt
    main_BASE_11918.txt
    main_LOCAL_11918.txt
    main_REMOTE_11918.txt

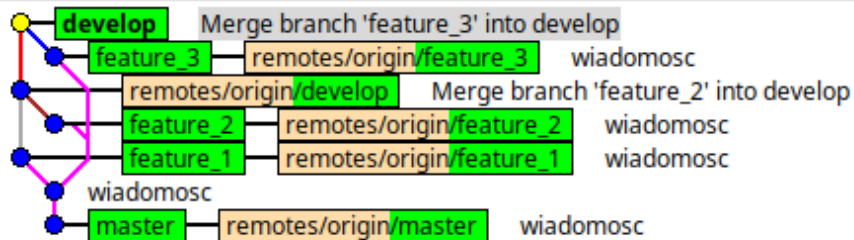
nothing added to commit but untracked files present (use "git add" to track)
admin@PPPubuntu:~/Desktop/PPP_Git$ gitk
```



q, r

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git merge feature_3
Auto-merging main.txt
CONFLICT (content): Merge conflict in main.txt
Automatic merge failed; fix conflicts and then commit the result.
admin@PPPubuntu:~/Desktop/PPP_Git$ git mergetool
Merging:
main.txt

Normal merge conflict for 'main.txt':
  {local}: modified file
  {remote}: modified file
main.txt seems unchanged.
Was the merge successful [y/n]? y
admin@PPPubuntu:~/Desktop/PPP_Git$ git merge --continue
[develop d0e362b] Merge branch 'feature_3' into develop
admin@PPPubuntu:~/Desktop/PPP_Git$ gitk
```



4. a, b, c, d, e

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout develop
Already on 'develop'
Your branch is ahead of 'origin/develop' by 2 commits.
  (use "git push" to publish your local commits)
admin@PPPubuntu:~/Desktop/PPP_Git$ git branch release
admin@PPPubuntu:~/Desktop/PPP_Git$ git push -u origin release
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 345 bytes | 345.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'release' on GitHub by visiting:
remote:   https://github.com/koob7/PPP_Git/pull/new/release
remote:
To https://github.com/koob7/PPP_Git.git
 * [new branch]      release -> release
branch 'release' set up to track 'origin/release'.
admin@PPPubuntu:~/Desktop/PPP_Git$ touch test.cpp
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch develop
Your branch is ahead of 'origin/develop' by 2 commits.
  (use "git push" to publish your local commits)

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    main.txt.orig
    main_BACKUP_11918.txt
    main_BASE_11918.txt
    main_LOCAL_11918.txt
    main_REMOTE_11918.txt
    test.cpp

nothing added to commit but untracked files present (use "git add" to track)
admin@PPPubuntu:~/Desktop/PPP_Git$ git add test.cpp
admin@PPPubuntu:~/Desktop/PPP_Git$ git commit -m "plik_cpp"
[develop ad9b3f9] plik_cpp
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.cpp
admin@PPPubuntu:~/Desktop/PPP_Git$ git push
```

f, g, h, i

```
admin@PPPubuntu:~/Desktop/PPP_Git$ touch .gitignore
admin@PPPubuntu:~/Desktop/PPP_Git$ nano .gitignore
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch develop
Your branch is up to date with 'origin/develop'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        main.txt.orig
        main_BACKUP_11918.txt
        main_BASE_11918.txt
        main_LOCAL_11918.txt
        main_REMOTE_11918.txt

nothing added to commit but untracked files present (use "git add" to track)
admin@PPPubuntu:~/Desktop/PPP_Git$ touch test_2.cpp
admin@PPPubuntu:~/Desktop/PPP_Git$ git status
On branch develop
Your branch is up to date with 'origin/develop'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        main.txt.orig
        main_BACKUP_11918.txt
        main_BASE_11918.txt
        main_LOCAL_11918.txt
        main_REMOTE_11918.txt

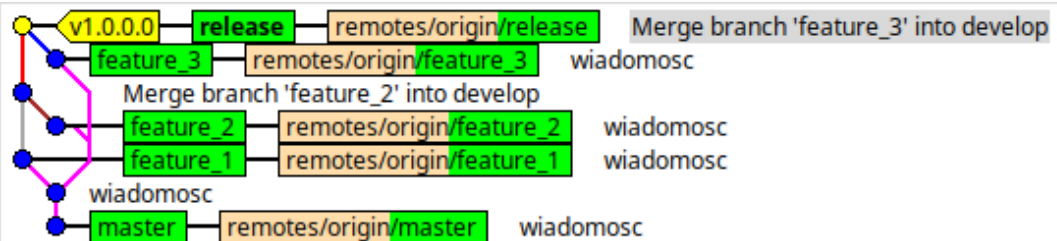
nothing added to commit but untracked files present (use "git add" to track)
admin@PPPubuntu:~/Desktop/PPP_Git$
```

j, k

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git add *
The following paths are ignored by one of your .gitignore files:
test_2.cpp
hint: Use -f if you really want to add them.
hint: Turn this message off by running
hint: "git config advice.addIgnoredFile false"
admin@PPPubuntu:~/Desktop/PPP_Git$ git add .gitignore
admin@PPPubuntu:~/Desktop/PPP_Git$ git commit -m "gitignore"
[develop cca7d44] gitignore
 6 files changed, 20 insertions(+)
 create mode 100644 .gitignore
 create mode 100644 main.txt.orig
 create mode 100644 main_BACKUP_11918.txt
 create mode 100644 main_BASE_11918.txt
 create mode 100644 main_LOCAL_11918.txt
 create mode 100644 main_REMOTE_11918.txt
admin@PPPubuntu:~/Desktop/PPP_Git$ git push
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (8/8), 703 bytes | 703.00 KiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/koob7/PPP_Git.git
 ad9b3f9..cca7d44 develop -> develop
admin@PPPubuntu:~/Desktop/PPP_Git$
```


5. a, b, c, d

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git checkout release
Switched to branch 'release'
Your branch is up to date with 'origin/release'.
admin@PPPubuntu:~/Desktop/PPP_Git$ git tag -a v1.0.0.0 -m 'release v1.0.0.0'
fatal: Failed to resolve 'v1.0.0.0' as a valid ref.
admin@PPPubuntu:~/Desktop/PPP_Git$ git tag -a v1.0.0.0 -m 'release v1.0.0.0'
admin@PPPubuntu:~/Desktop/PPP_Git$ gitk
admin@PPPubuntu:~/Desktop/PPP_Git$ ^C
admin@PPPubuntu:~/Desktop/PPP_Git$ git push --tags
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 160 bytes | 160.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/koob7/PPP_Git.git
* [new tag]          v1.0.0.0 -> v1.0.0.0
admin@PPPubuntu:~/Desktop/PPP_Git$
```



SHA1 ID: [d0e362b1fbd33c577df8f7c3a957e1d8cc45cbf2](#)

Find commit containing:

Search

◆ Diff ◆ Old version ◆ New version Lines of context: 3 ☐ Ignore space changes

Tag: **v1.0.0.0**

object [d0e362b1fbd33c577df8f7c3a957e1d8cc45cbf2](#)

type commit

tag v1.0.0.0

tagger admin <kobiellus63@gmail.com> 1760384150 +0000

release v1.0.0.0

6. a, b,

```
admin@PPPubuntu:~/Desktop/PPP_Git$ git config --global -e
admin@PPPubuntu:~/Desktop/PPP_Git$ git st
On branch release
Your branch is up to date with 'origin/release'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
      test_2.cpp

nothing added to commit but untracked files present (use "git add" to track)
admin@PPPubuntu:~/Desktop/PPP_Git$ git co
Your branch is up to date with 'origin/release'.
admin@PPPubuntu:~/Desktop/PPP_Git$ git sync
Already up to date.
Everything up-to-date
admin@PPPubuntu:~/Desktop/PPP_Git$ git cos
Your branch is up to date with 'origin/release'.
Already up to date.
Everything up-to-date
admin@PPPubuntu:~/Desktop/PPP_Git$
```

```
GNU nano 7.2 /home/admin/.gitconfig *
[user]
    email = kobielus63@gmail.com
[credential]
    helper = store
[alias]
    st = status
    co = checkout
    sync = "!f() { git pull --all; git push; }; f"
    cos = "!f() { git co $1; git sync; }; f"
```

7. a, b,

```
GNU nano 7.2 /home/admin/.gitconfig
[user]
    email = kobielus63@gmail.com
[credential]
    helper = store
[alias]
    st = status
    co = checkout
    sync = "!f() { git pull --all; git push; }; f"
    cos = "!f() { git co $1; git sync; }; f"
# Add this to you gitconfig
# Comment: Start of "Extra Block"
# Comment: This is to unlock VSCode as your
# git diff and git merge tool
[merge]
    tool = vscode
[mergetool "vscode"]
    cmd = code --wait $MERGED
[diff]
    tool = vscode
[difftool "vscode"]
    cmd = code --wait --diff $LOCAL $REMOTE
# VSCode Difftool
## End of extra block
```

Część 3

a, b, c, d

```
admin@PPPubuntu:~/Desktop$ rm -rf PPP_Git
admin@PPPubuntu:~/Desktop$ mk dkr PPP_Git
mk: command not found
admin@PPPubuntu:~/Desktop$ mkdir PPP_Git
admin@PPPubuntu:~/Desktop$ git clone https://github.com/koob7/PPP_Git
Cloning into 'PPP_Git'...
remote: Enumerating objects: 30, done.
remote: Counting objects: 100% (30/30), done.
remote: Compressing objects: 100% (21/21), done.
remote: Total 30 (delta 4), reused 26 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (30/30), done.
Resolving deltas: 100% (4/4), done.
admin@PPPubuntu:~/Desktop$ gitk
admin@PPPubuntu:~/Desktop$ cd PPP_Git
admin@PPPubuntu:~/Desktop/PPP_Git$ gitk
```

