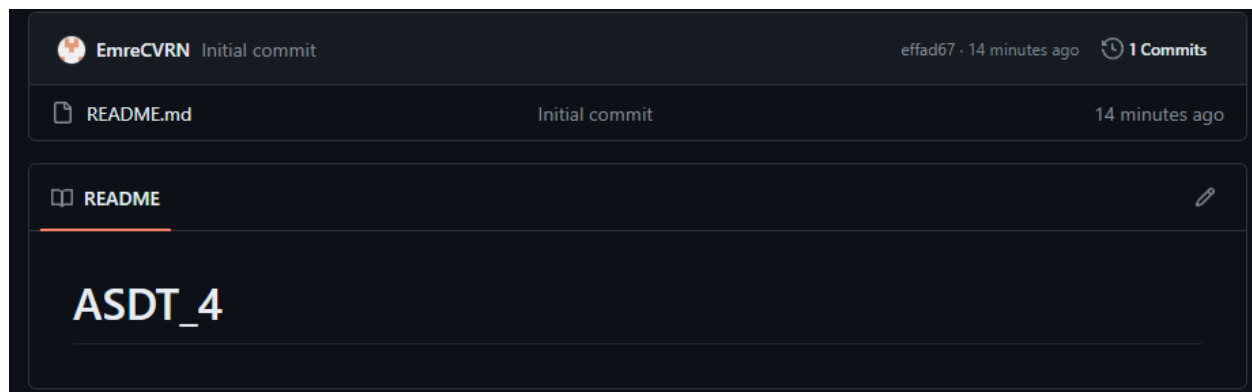


1. Create a private repository called ASDT_4.



```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4 ((5dbb325...))
$ git clone https://github.com/EmreCVRN/ASDT_4.git
Cloning into 'ASDT_4'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

2. Create a new branch in the repository called feature/hello_world.

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (main)
$ git branch feature_hello_world
```

3. Create a new python/Java/C/C++ file that displays on the terminal “Hello world”.

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world)
$ vim main.py

emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world)
$ python3 main.py
Hello world!
```

4. Add file to the repo.

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world)
$ git status
On branch feature_hello_world
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    main.py

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

5. Commit and push changes to the remote repo.


```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world)
$ git commit -m "File added."
[feature_hello_world 0a6c1c2] File added.
1 file changed, 1 insertion(+)
create mode 100644 main.py
```

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world)
$ git push -u origin feature_hello_world
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 301 bytes | 301.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature_hello_world' on GitHub by visiting:
remote:   https://github.com/EmreCVRN/ASDT_4/pull/new/feature_hello_world
remote:
To https://github.com/EmreCVRN/ASDT_4.git
 * [new branch]      feature_hello_world -> feature_hello_world
branch 'feature_hello_world' set up to track 'origin/feature_hello_world'.
```

6. Create pull request and merge branch feature/hello_world to branch main.

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparison](#)




base: main

←

compare: feature_hello_world

























✓ Able to merge. These branches can be automatically merged.

**Add a title**



File added.

Add a description


WritePreview


H B I                        

Add your description here...

 Markdown is supported  Paste, drop, or click to add files

Create pull request






Require approval from specific reviewers before merging


[Rulesets](#) ensure specific people approve pull requests before they're merged.

Add rule X



Continuous integration has not been set up

[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.




This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request




You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



Pull request successfully merged and closed

You're all set—the `feature_hello_world` branch can be safely deleted.

Delete branch

 EmreCVRN	Merge pull request #1 from EmreCVRN/feature_hello_world	a32b194 · now	🕒 3 Commits
 README.md	Initial commit	1 hour ago	
 main.py	File added.	3 minutes ago	

7. Create a new branch from branch main called feature/hello_world_asdt

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (main)
$ git branch feature_hello_world_asdt

emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (main)
$ git branch
  feature_hello_world
  feature_hello_world_asdt
* main
```

8. Modify python/Java/C/C++ file to display on the terminal “Hello ASDT world”.

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ vim main.py

emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ git status
On branch feature_hello_world_asdt
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    main.py

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

emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ git add main.py
warning: in the working copy of 'main.py', LF will be replaced by CRLF the next time Git touches it
```

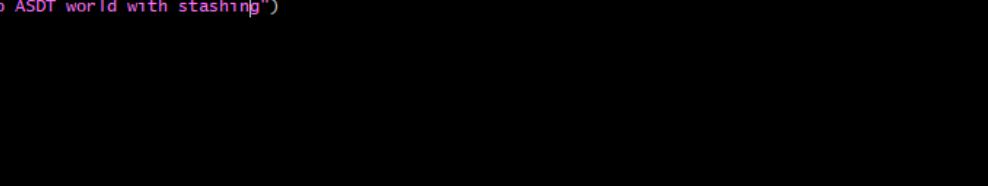
9. Commit file.

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ git commit -m "Hello ASDT world added."
[feature_hello_world_asdt 04d74cb] Hello ASDT world added.
 1 file changed, 1 insertion(+)
 create mode 100644 main.py

emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ git status
On branch feature_hello_world_asdt
nothing to commit, working tree clean
```

10. Modify python/Java/C/C++ file to display on the terminal “Hello ASDT world with stashing”.

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ vim main.py
```



The screenshot shows a Windows command prompt window with the title bar "MINGW64; c:/Users/emrec/Desktop/5.semester/Advanced software/Ex4/ASDT_4". The window has standard Windows window controls (minimize, maximize, close) on the right. The command prompt is dark-themed. The first line of the command prompt shows a Python command: `print("Hello ASDT world with stashing")`. The second line shows the command prompt prompt `>` followed by a space. The bottom status bar of the command prompt displays `main.py [unix] (15:04 23/01/2024)` on the left and `1,37 All` on the right.

```
MINGW64; c:/Users/emrec/Desktop/5.semester/Advanced software/Ex4/ASDT_4
print("Hello ASDT world with stashing")
>
main.py [unix] (15:04 23/01/2024) 1,37 All
```

11. Use `git status` and `git diff` to see current changes in the repo.

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ git status
On branch feature_hello_world_asdt
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.py

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

```
diff --git a/main.py b/main.py
index 9828abe..ce66884 100644
--- a/main.py
+++ b/main.py
@@ -1,1 @@
-print("Hello ASDT world")
+print("Hello ASDT world with stashing")
```

12. Stash changes

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ git stash
warning: in the working copy of 'main.py', LF will be replaced by CRLF the next time Git touches it
Saved working directory and index state WIP on feature_hello_world_asdt: 04d74cb Hello ASDT world added.
```

13. Push commit to remote repo

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt)
$ git push -u origin feature_hello_world_asdt
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 317 bytes | 317.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature_hello_world_asdt' on GitHub by visiting:
remote:   https://github.com/EmreCVRN/ASDT_4/pull/new/feature_hello_world_asdt
remote:
To https://github.com/EmreCVRN/ASDT_4.git
 * [new branch]      feature_hello_world_asdt -> feature_hello_world_asdt
branch 'feature_hello_world_asdt' set up to track 'origin/feature_hello_world_asdt'.
```

14. Create pull request and merge branch feature/hello_world_asdt to branch main.

The screenshot displays the GitHub interface for the repository **ASDT_4** (Public). At the top, there are buttons for **Pin** and **Unwatch** (1). Below this, a notification bar states: **feature_hello_world_asdt** had recent pushes on 23 Jan, with a **Compare & pull request** button.

The main content area shows a list of rules and status messages for the pull request:

- Require approval from specific reviewers before merging**: Rulesets ensure specific people approve pull requests before they're merged. (Add rule)
- Continuous integration has not been set up**: GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.
- This branch has no conflicts with the base branch**: Merging can be performed automatically. (Merge pull request)

At the bottom, a green notification box states: **Pull request successfully merged and closed**. It says, "You're all set—the `feature_hello_world_asdt` branch can be safely deleted." and includes a **Delete branch** button.

15. Create a new branch from stashed state and call it feature/hello_world_asdt_stashing.

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (main)
$ git branch feature_hello_world_asdt_stashing

emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (main)
$ git branch
  feature_hello_world
  feature_hello_world_asdt
  feature_hello_world_asdt_stashing
* main
```

16. Push commit to remote repo

```
emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (main)
$ git checkout feature_hello_world_asdt_stashing
Switched to branch 'feature_hello_world_asdt_stashing'

emrec@Emre MINGW64 ~/Desktop/5.semester/Advanced software/Ex4/ASDT_4 (feature_hello_world_asdt_stashing)
$ git push -u origin feature_hello_world_asdt_stashing
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature_hello_world_asdt_stashing' on GitHub by visiting:
remote:   https://github.com/EmreCVRN/ASDT_4/pull/new/feature_hello_world_asdt_stashing
remote:
To https://github.com/EmreCVRN/ASDT_4.git
 * [new branch]      feature_hello_world_asdt_stashing -> feature_hello_world_asdt_stashing
branch 'feature_hello_world_asdt_stashing' set up to track 'origin/feature_hello_world_asdt_stashing'.
```

17. Create pull request and merge branch feature/hello_world_asdt_stasing to branch main.

When I try to push unchanged repo, it didn't show up merge and pull request on the GitHub.