1. Creating Github account
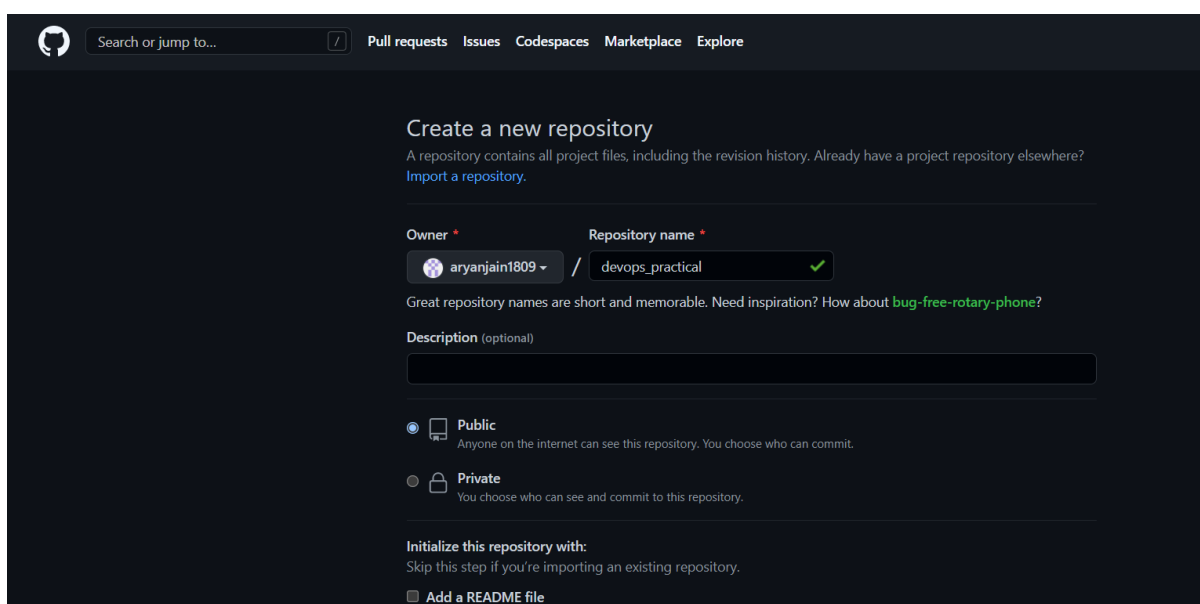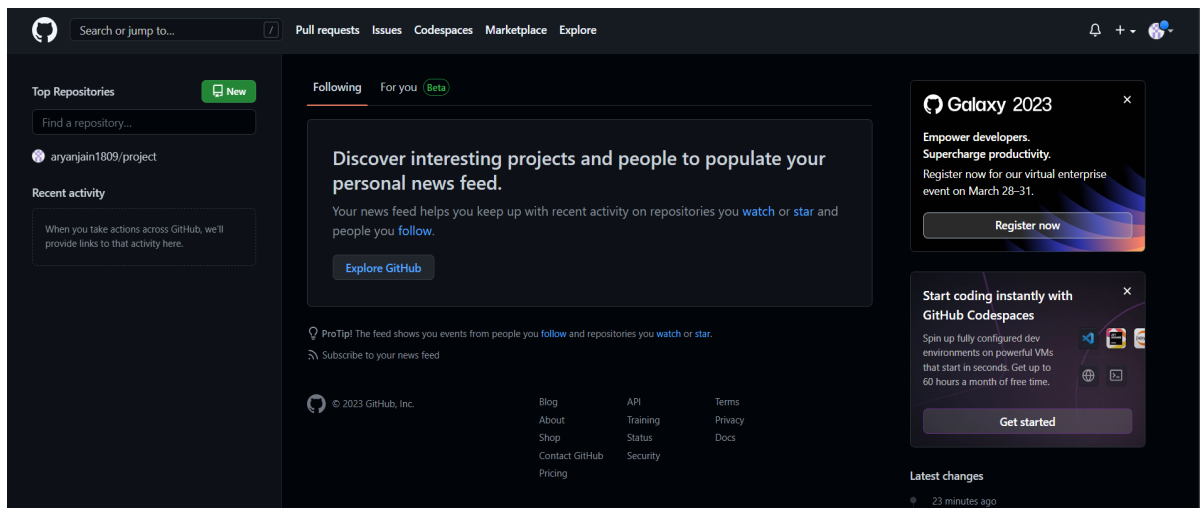

2. Synchronising Repositories

```
Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git status
On branch main

No commits yet

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

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

```
Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git add --all

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git commit -m "java code"
[main (root-commit) 617024a] java code
 2 files changed, 15 insertions(+)
 create mode 100644 Factorial.class
 create mode 100644 Factorial.java

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git log
commit 617024a67f9a1e08bf83e11c0bb0f9de0a7ecd97 (HEAD -> main)
Author: ARYAN-JAIN <demonftw18@gmail.com>
Date:   Tue Mar 28 00:42:09 2023 +0530

    java code

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (master)
$ git remote add origin https://github.com/aryanjain1809/devops_practical.git
```
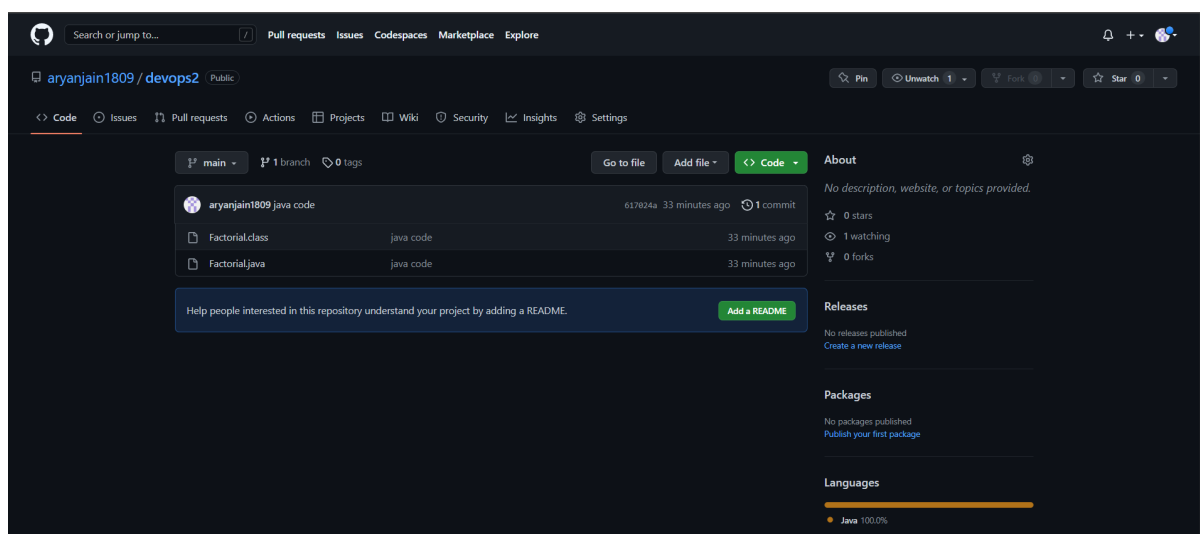
```
Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git push --set-upstream origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 1.03 KiB | 1.03 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/aryanjain1809/devops2.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

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main ▾   ⑂ 1 branch ◇ 0 tags   Go to file   Add file ▾   <> Code ▾

aryanjain1809 java code   617024a 33 minutes ago   ⊙ 1 commit

□ Factorial.class   java code   33 minutes ago
□ Factorial.java   java code   33 minutes ago

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```
Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git pull origin main
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 1.85 KiB | 189.00 KiB/s, done.
From https://github.com/aryanjain1809/devops2
 * branch            main       -> FETCH_HEAD
   617024a..7ca8d84  main       -> origin/main
Updating 86ff7a0..7ca8d84
Fast-forward
 alpha.html => bravo.html | 4 ++--
 1 file changed, 2 insertions(+), 2 deletions(-)
 rename alpha.html => bravo.html (77%)
```
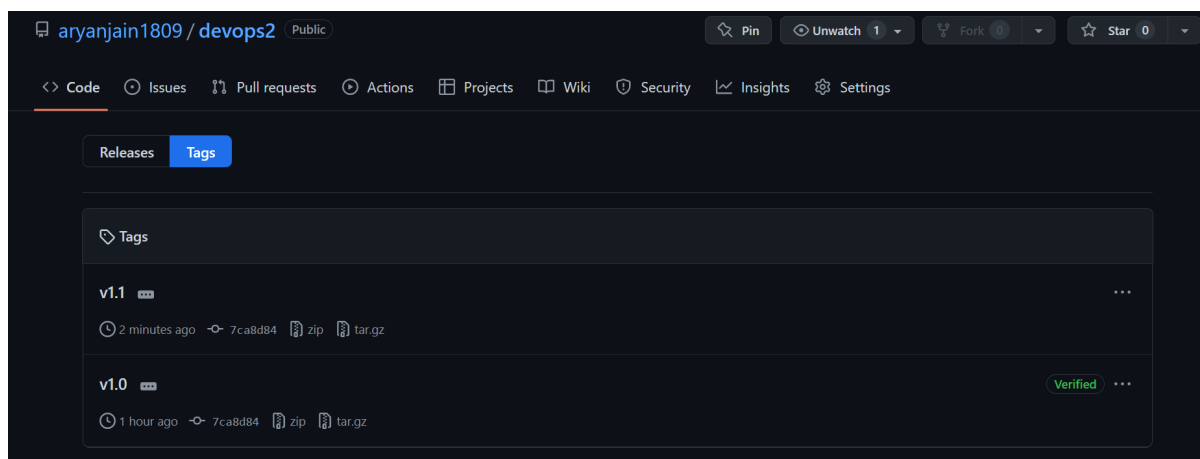
3. Tagging Known Commits

```
Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git tag v1.0

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git tag -a v1.1 -m "tag for release ver1.1"

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git tag
v1.0
v1.1

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git push --tags
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 168 bytes | 168.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/aryanjain1809/devops2.git
 * [new tag]          v1.0 -> v1.0
 * [new tag]          v1.1 -> v1.1
```
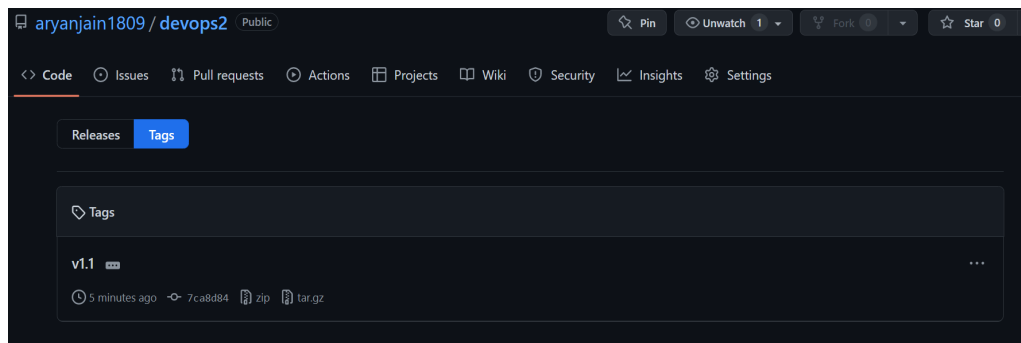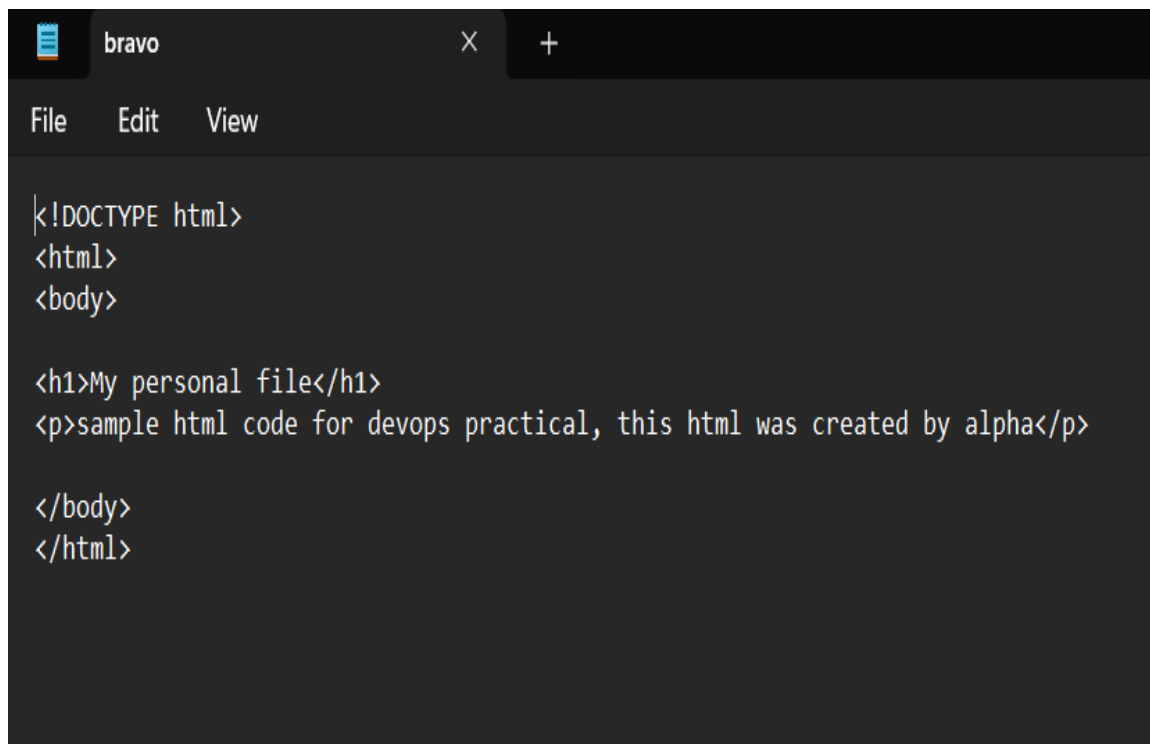
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🏷 Tags

v1.1 ...
🕐 2 minutes ago   ⚬ 7ca8d84   zip   tar.gz

v1.0 ...   Verified   ...
🕐 1 hour ago   ⚬ 7ca8d84   zip   tar.gz

```
Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git tag -d v1.0
Deleted tag 'v1.0' (was 7ca8d84)

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git tag
v1.1

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git push origin -d v1.0
To https://github.com/aryanjain1809/devops2.git
 - [deleted]         v1.0
```
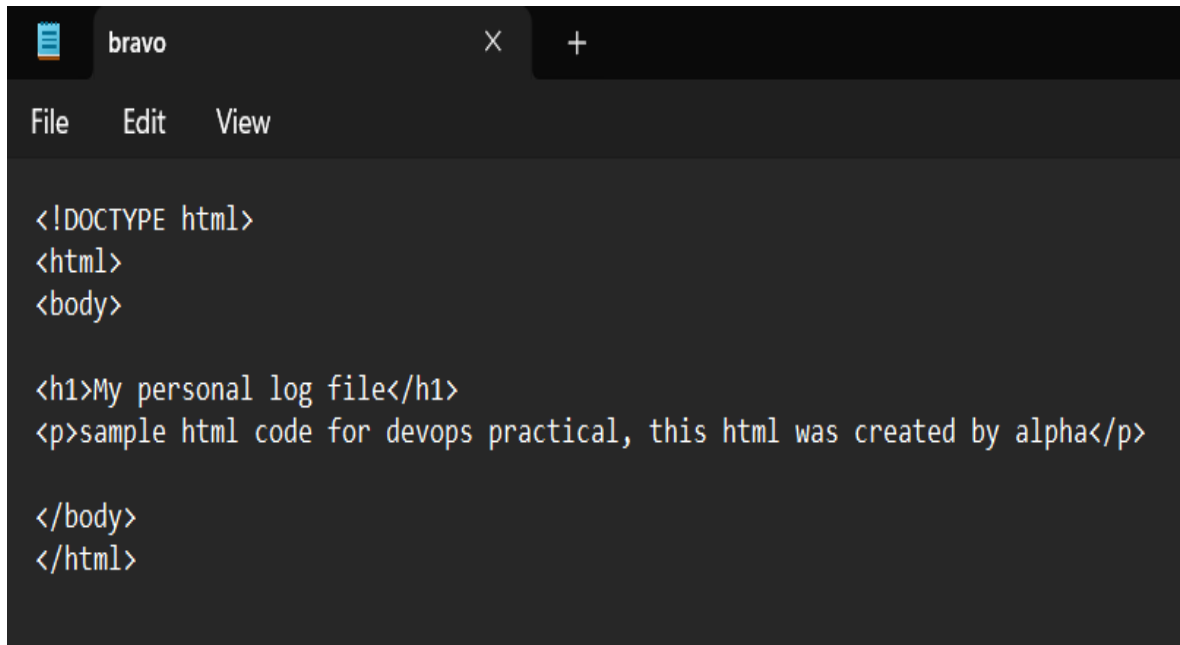

4. Reverting Changes

After reverting Changes

```
<!DOCTYPE html>
<html>
<body>

<h1>My personal log file</h1>
<p>sample html code for devops practical, this html was created by alpha</p>

</body>
</html>
```

```
MINGW64:/c/Users/Aryan/myproject

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git add --all

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git commit -m "UPDATE"
[main 0563bd4] UPDATE
 1 file changed, 1 insertion(+), 1 deletion(-)

Aryan@LAPTOP-P4OVNQ3U MINGW64 ~/myproject (main)
$ git log
commit 0563bd4b919e091af47b591675c9bb812e233aa2 (HEAD -> main)
Author: aryanjain1809 <demonftw18@gmail.com>
Date:   Tue Mar 28 03:48:27 2023 +0530

    UPDATE

commit 7ca8d848299ff0ee5e7e06d0455fae618139c019 (tag: v1.1, origin/main)
Author: aryanjain1809 <123548723+aryanjain1809@users.noreply.github.com>
Date:   Tue Mar 28 01:44:36 2023 +0530

    Update bravo.html

commit a5a96e422b52c7236bab4d22d38bbbca1d7c50ec
Merge: db54f7b 61e0a9b
Author: aryanjain1809 <123548723+aryanjain1809@users.noreply.github.com>
Date:   Tue Mar 28 01:35:48 2023 +0530

    Merge pull request #2 from aryanjain1809/bravo

    bravo

commit 61e0a9bc2caf1c076bb4c15b421cc4972e37eace (origin/sigma, origin/bravo, sigma, bravo)
Author: aryanjain1809 <demonftw18@gmail.com>
Date:   Tue Mar 28 01:32:45 2023 +0530

    bravo
```