



# **Intro to Devops**

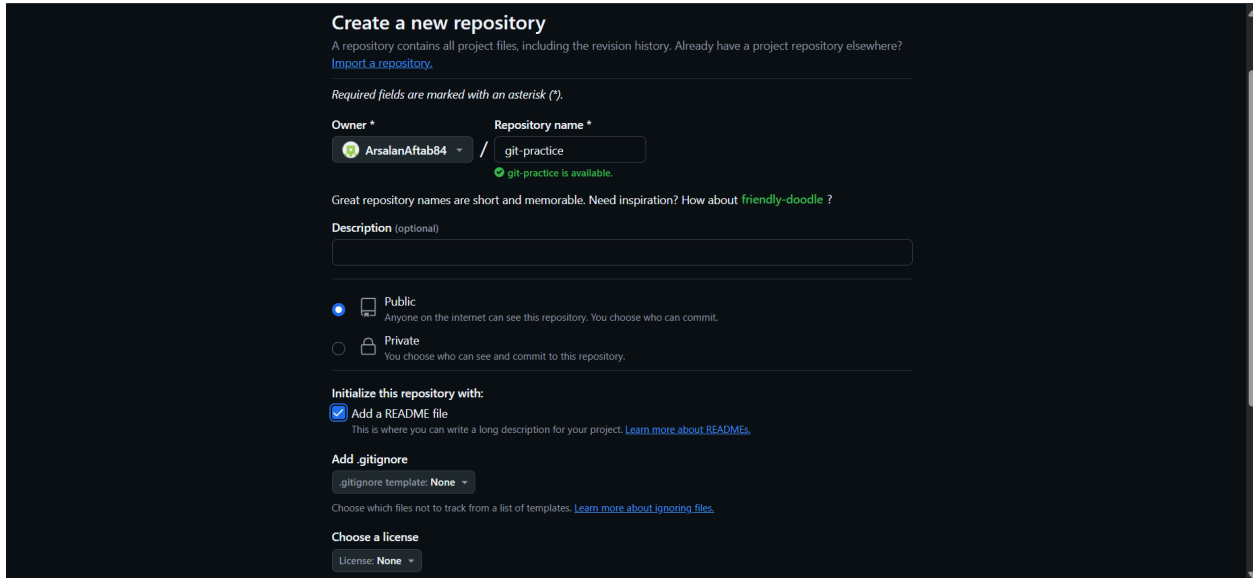
## **Sir Tariq Khan Ghouri**

### **Lab-11-GitHub**

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## Step 3: Create a GitHub Repository



The screenshot shows the GitHub 'Create a new repository' form. At the top, it says 'Create a new repository' and provides a brief explanation of what a repository is. Below this, there's a note about required fields marked with an asterisk. The 'Owner' field is set to 'ArsalanAftab84' and the 'Repository name' is 'git-practice', with a green checkmark indicating it's available. There's a suggestion for repository names. The 'Description' field is optional and empty. The 'Visibility' section has 'Public' selected. The 'Initialize this repository with' section has 'Add a README file' checked. The 'Add .gitignore' section shows a dropdown set to 'None'. The 'Choose a license' section also shows a dropdown set to 'None'.

## Step 4: Clone the Repository

```
alisa@Ali-Sameed MINGW64 ~
$ git clone git@github.com:ArsalanAftab84/git-practice.git
Cloning into 'git-practice'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.

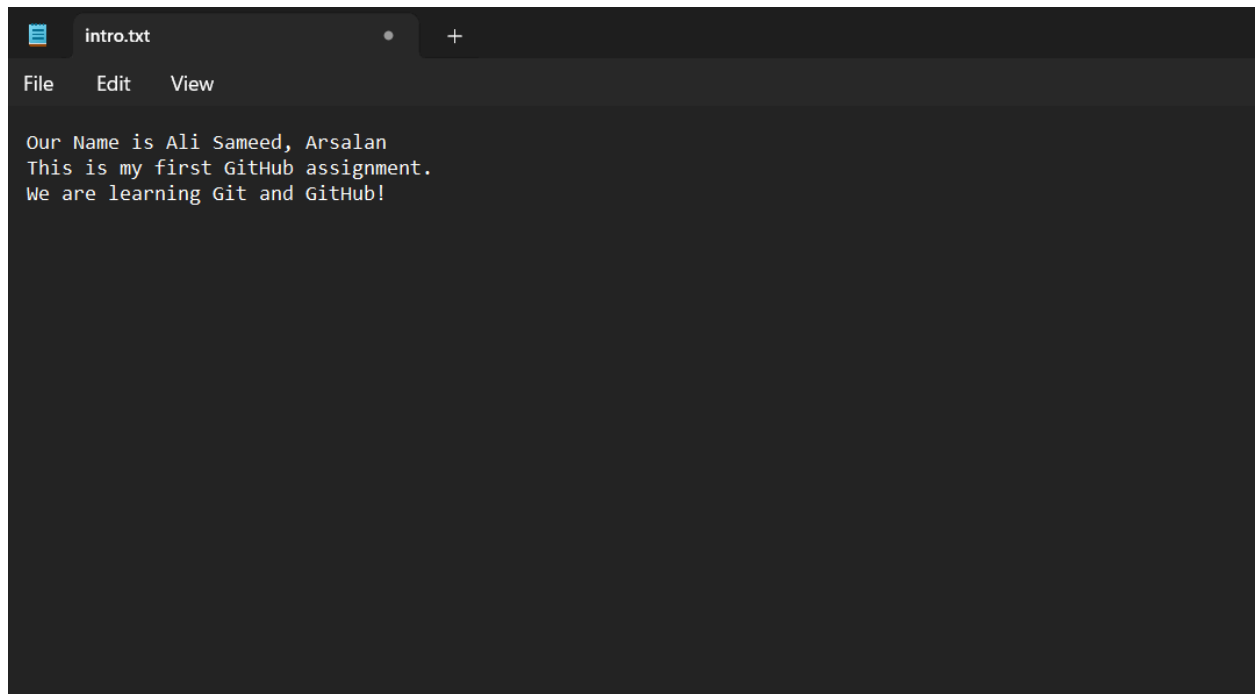
alisa@Ali-Sameed MINGW64 ~
$ cd git-practice

alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$
```

## Step 5: Make Changes Locally

```
alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ echo intro.txt
intro.txt

alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ notepad intro.txt
```



## Step 6: Stage and Commit Changes

```
alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ git add intro.txt

alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ git commit -m "Added intro.txt with a short introduction"
[main e1d4e9d] Added intro.txt with a short introduction
1 file changed, 3 insertions(+)
create mode 100644 intro.txt

alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ |
```

## Step 7: Push to GitHub

```
alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 388 bytes | 388.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:ArslanAftab84/git-practice.git
   ad6421c..e1d4e9d  main -> main

alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$
```

The screenshot shows the GitHub web interface for a repository named 'git-practice' owned by 'ArslanAftab84'. The repository is public and has 1 branch (main) and 0 tags. The commit history shows two commits: 'Initial commit' (10 minutes ago) and 'Added intro.txt with a short introduction' (2 minutes ago). The README file is visible, titled 'git-practice'. The right sidebar shows the repository's statistics: 0 stars, 1 watching, and 0 forks. There are no releases or packages published yet.

ArslanAftab84 / git-practice

main 1 Branch 0 Tags

Go to file Add file Code

ArslanAftab84 Added intro.txt with a short introduction e1d4e9d - 2 minutes ago 2 Commits

README.md Initial commit 10 minutes ago

intro.txt Added intro.txt with a short introduction 2 minutes ago

README

git-practice

About

No description, website, or topics provided.

Readme

Activity

0 stars

1 watching

0 forks

Releases

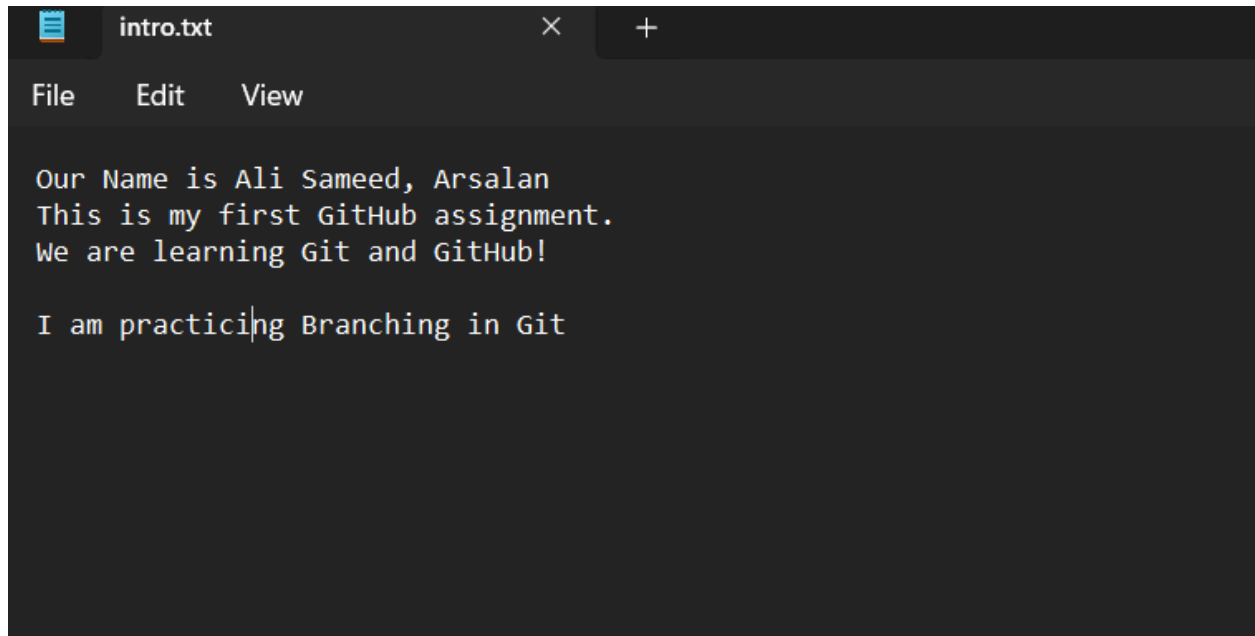
No releases published

Create a new release

Packages

No packages published

Publish your first package



## Step 8: Create a Branch and Additional Changes

```
alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ git checkout -b feature
Switched to a new branch 'feature'

alisa@Ali-Sameed MINGW64 ~/git-practice (feature)
$ notepad intro.txt

alisa@Ali-Sameed MINGW64 ~/git-practice (feature)
$

alisa@Ali-Sameed MINGW64 ~/git-practice (feature)
$ git add intro.txt

alisa@Ali-Sameed MINGW64 ~/git-practice (feature)
$ git commit -m "Updated intro.txt in feature branch"
[feature d7e932d] Updated intro.txt in feature branch
1 file changed, 3 insertions(+), 1 deletion(-)

alisa@Ali-Sameed MINGW64 ~/git-practice (feature)
$ git push origin feature
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 357 bytes | 357.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote:   https://github.com/ArsalanAftab84/git-practice/pull/new/feature
remote:
To github.com:ArslanAftab84/git-practice.git
 * [new branch]   feature -> feature

alisa@Ali-Sameed MINGW64 ~/git-practice (feature)
$ |
```

## Step 9: Create and Merge a Pull Request

The screenshot shows the GitHub repository page for 'git-practice'. At the top, there's a header with the repository name, a 'Public' badge, and buttons for 'Pin', 'Unwatch', and 'Fork'. Below this, a notification bar indicates that the 'feature' branch has recent pushes. A 'Compare & pull request' button is visible. The main content area shows the 'feature' branch selected, with 2 branches and 0 tags. A search bar and 'Add file' button are present. A message states 'This branch is 1 commit ahead of main'. Below this, a commit history table shows a commit by 'ArsalanAftab84' updating 'intro.txt'. A file list shows 'README.md' and 'intro.txt'. The README content is partially visible, showing 'git-practice'. On the right sidebar, there are sections for 'About', 'Releases', and 'Packages', all indicating no content has been published yet.


The screenshot shows the 'Comparing changes' interface in GitHub. It prompts the user to choose two branches to compare. The 'base' branch is 'main' and the 'compare' branch is 'feature'. A green checkmark indicates 'Able to merge'. Below this, there's a 'Create pull request' button. A summary bar shows '1 commit', '1 file changed', and '1 contributor'. The commit history shows a commit by 'ArsalanAftab84' updating 'intro.txt'. The diff view shows changes to 'intro.txt' with 3 additions and 1 deletion. The diff content is as follows:

```
@@ -1,3 +1,5 @@
1 1 Our Name is Ali Sameed, Arsalan
2 2 This is my first GitHub assignment.
3 3
```


ArsalanAftab84 / git-practice

Issues Pull requests 1 Actions Projects Wiki Security Insights Settings


## Updated intro.txt in feature branch #1



 Open ArsalanAftab84 wants to merge 1 commit into `main` from `feature`

Conversation 0 Commits 1 Checks 0 Files changed 1

 **ArsalanAftab84** commented now Owner ...

*No description provided.*

 Updated intro.txt in feature branch d7e932d

  **No conflicts with base branch**  
Merging can be performed automatically.

**Merge pull request** You can also merge this with the command line. [View command line instructions.](#)




## Step 10: Sync Local Repository

### Branches New branch

Overview **Yours** Active Stale All

Search branches...

Default

Branch	Updated	Check status	Behind / Ahead	Pull request
<code>main</code> 	 10 minutes ago		Default	 ...

```
alisa@Ali-Sameed MINGW64 ~/git-practice (feature)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$ git pull origin main
From github.com:ArsalanAftab84/git-practice
 * branch          main      -> FETCH_HEAD
Already up to date.
```

```
alisa@Ali-Sameed MINGW64 ~/git-practice (main)
$
```