Git & GitHub

Premanand S

Technical understanding

- Git - tool
- Github - website

GIT – Intro

- Manage our projects – codes / files
- Tool for version control

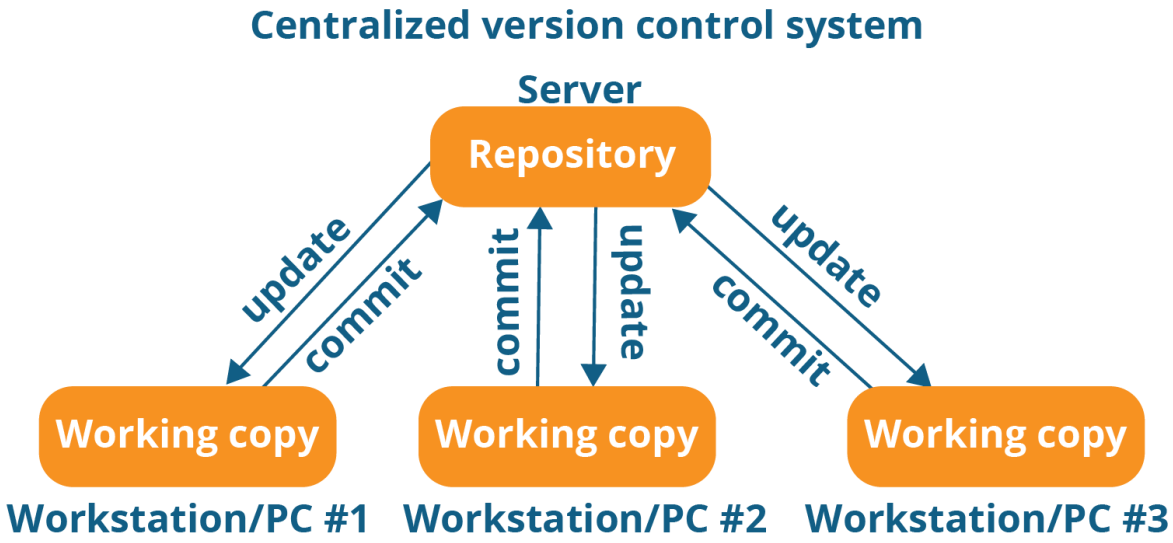
Version Control

- Management of changes to documents and collection of information's

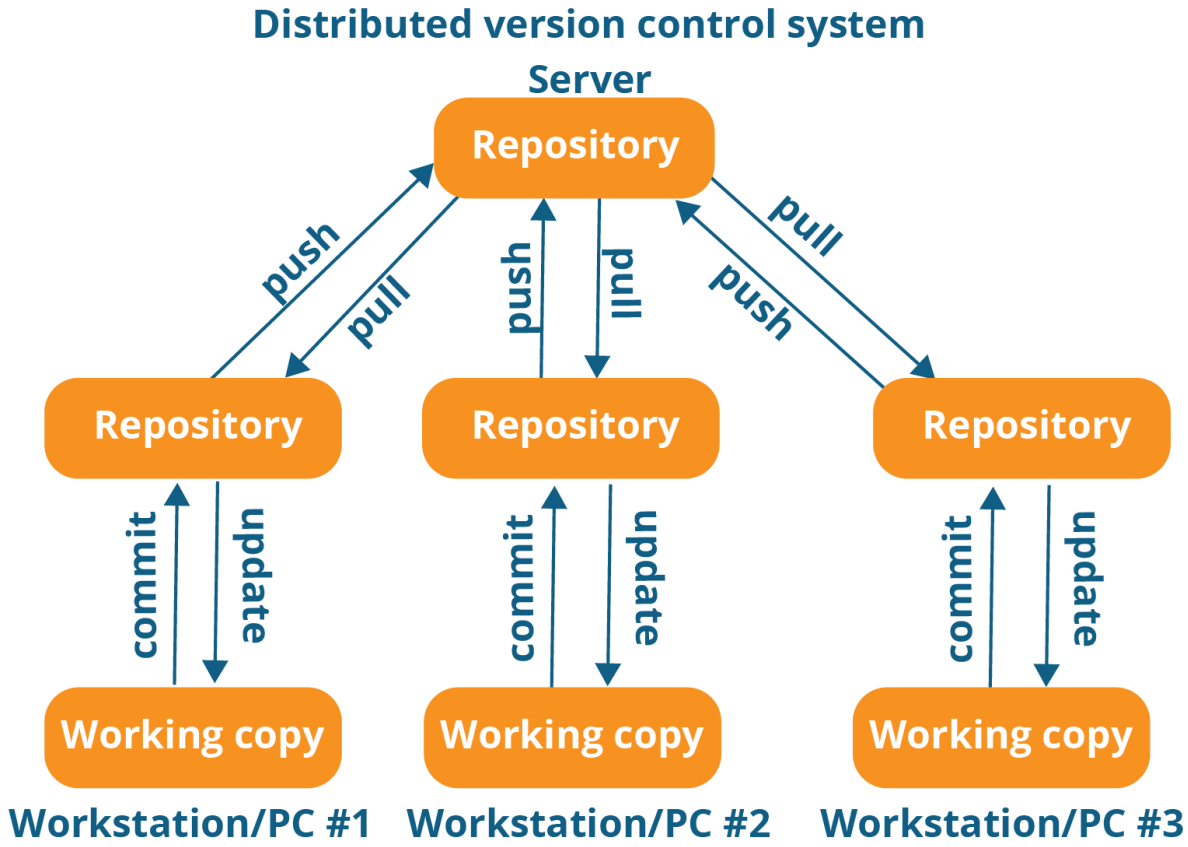
Types of version control

- Centralized Version Control System (CVCS)
- Distributed Version Control System (DVCS)

Centralized Version Control System



Distributed Version Control System (DVCS)



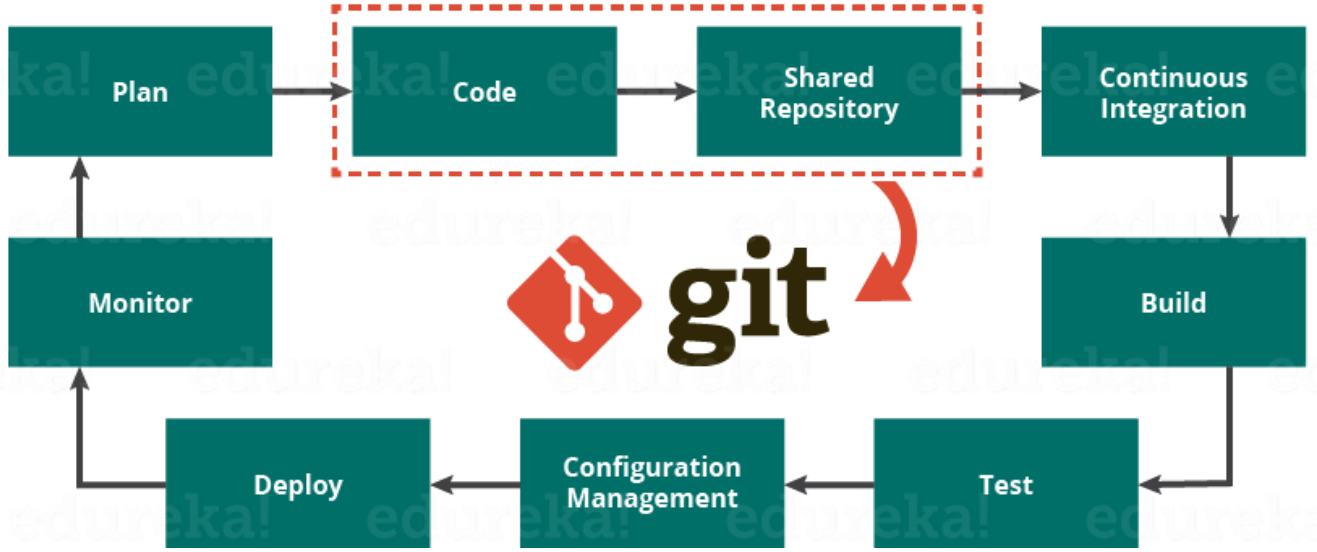
What is GIT?

- Distributed Version Control System
- Non – linear workflow
- Tool for version control

Features of GIT

- Free and open source
- Speed
- Scalable (lossless compressed)
- Reliable (lost data can be recovered)
- Secure (SHA1 (Secure Hash Function))
- Economical (CVCS Vs DVCS)
- Non linear development
- Branching

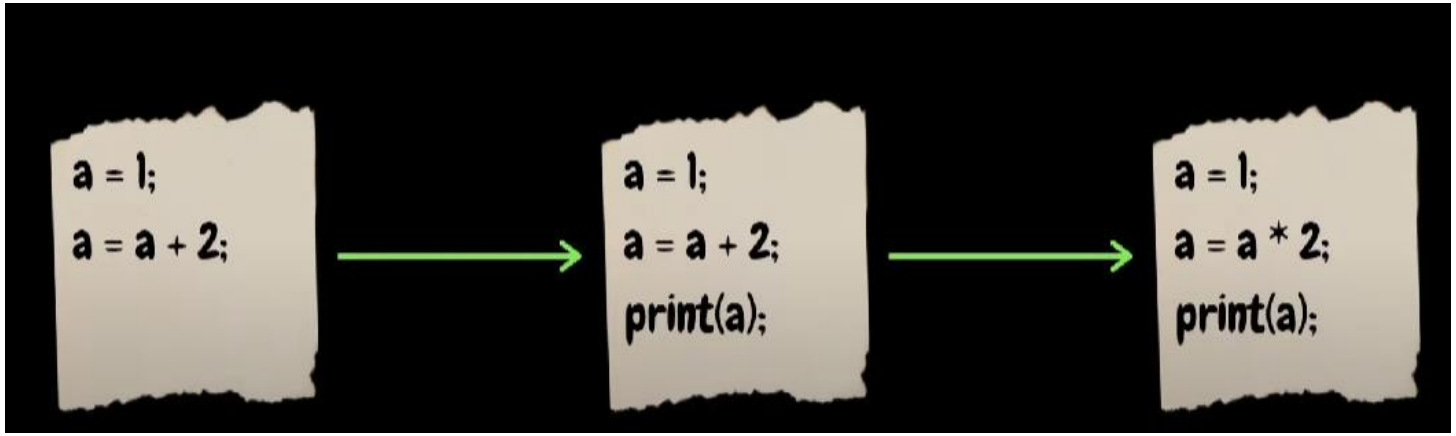
How Git used for developers?



Need for version control

- Keep tracking of code
- Synchronization

Tracking of code?



Synchronization of code?

Why Version Control?

- Collaboration
- Storing versions
- Backup
- Analyze (What exactly changed and when it changed?)

Host Repository

- AWS CodeCommit
- Azure repos
- Backlog
- Beanstalk
- Bitbucket
- Buddy
- CloudForge
- CloudRepo
- Codebase
- CodeGiant
- FusionForge
- GitLab
- Gogs etc…

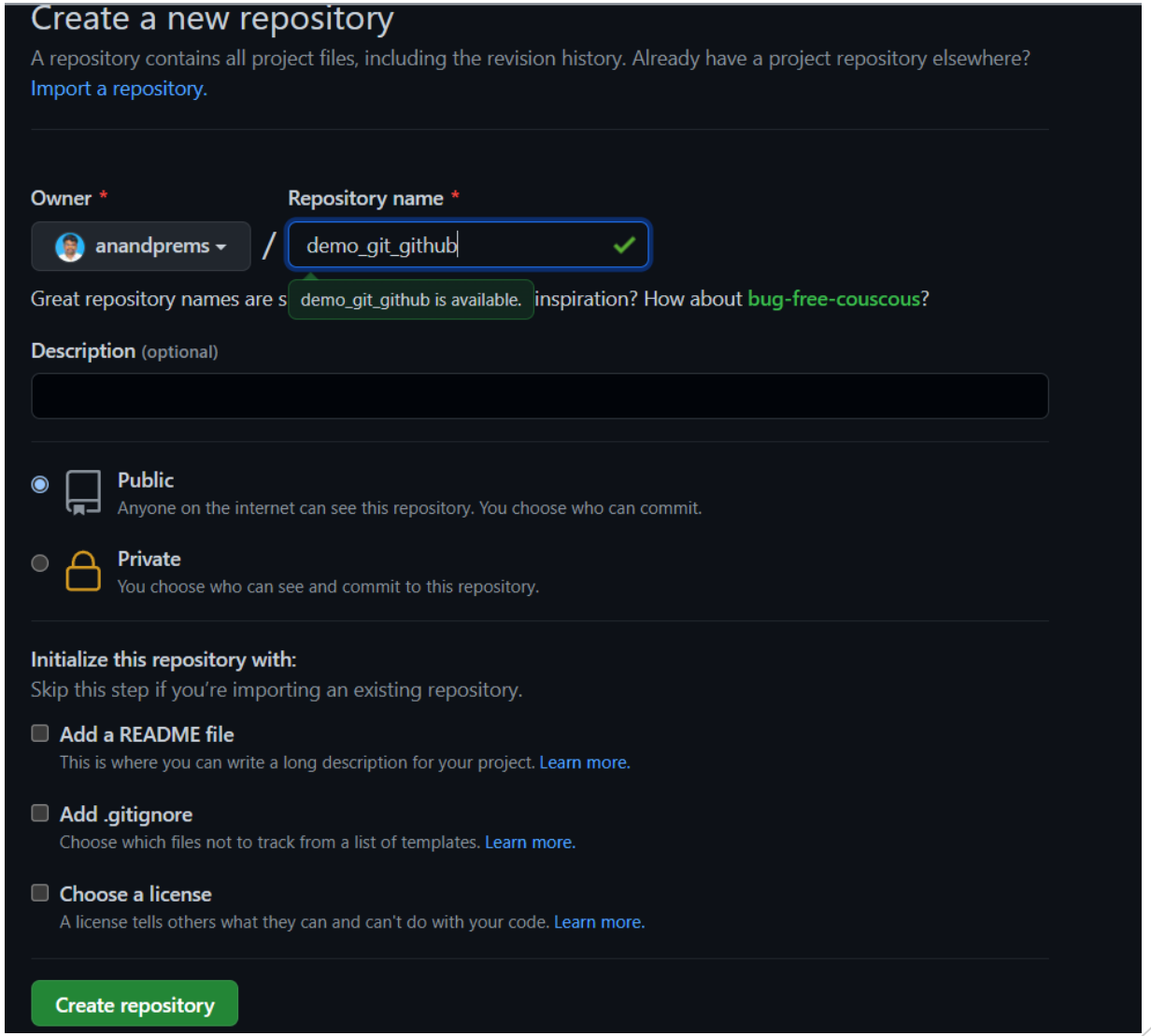
Github

- https://github.com
- Signup – if new or Sign in option
- Server concept - GitHub

New Repository?

- + - new repository or https://github.com/new
- Repository name
- Public / Private – depends on the demands – create !

Create repository in github



anandprems/demo_git_github
github.com/anandprems/demo_git_github
R Package Docume... One Fourth Labs Online Certification... Home Electronics & Com... Get Into PC - Down... GitHub CoCalc - Online LaT... ShareLaTeX, Online... Tutorials - Overleaf,... Reading list

anandprems / demo_git_github

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Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/anandprems/demo_git_github.git

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

```
echo "# demo_git_github" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/anandprems/demo_git_github.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/anandprems/demo_git_github.git
git branch -M main
git push -u origin main
```

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PowerShell

- Git <enter>
- If not available - git - https://git-scm.com/downloads

Windows PowerShell

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\S.A.N> git
usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           [--super-prefix=<path>] [--config-env=<name>=<envvar>]
           <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
   clone     Clone a repository into a new directory
   init      Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
   add       Add file contents to the index
   mv        Move or rename a file, a directory, or a symlink
   restore   Restore working tree files
   rm        Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
   bisect    Use binary search to find the commit that introduced a bug
   diff      Show changes between commits, commit and working tree, etc
   grep      Print lines matching a pattern
   log       Show commit logs
   show      Show various types of objects
   status    Show the working tree status

grow, mark and tweak your common history
   branch    List, create, or delete branches
   commit    Record changes to the repository
   merge     Join two or more development histories together
   rebase    Reapply commits on top of another base tip
   reset     Reset current HEAD to the specified state
   switch    Switch branches
   tag       Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
   fetch     Download objects and refs from another repository
   pull      Fetch from and integrate with another repository or a local branch
   push      Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
See 'git help git' for an overview of the system.
PS C:\Users\S.A.N>
```

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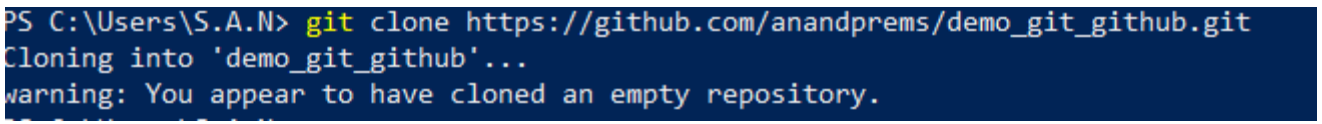
Git clone

- If you need to alter the code from existing or new repository from GitHub account
- Download and a create a copy in our local computer


PS C:\Users\S.A.N> git clone https://github.com/anandprems/demo_git_github.git
Cloning into 'demo_git_github'...
warning: You appear to have cloned an empty repository.

Select Windows PowerShell

```
PS C:\Users\S.A.N> ls


    Directory: C:\Users\S.A.N


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        15-03-2021     20:14                .astropy
d-----        26-11-2021     05:50                .conda
d-----        15-03-2021     20:18                .config
d-----        31-05-2021     23:15                .gsutil
d-----        23-01-2022     00:25                .ipynb_checkpoints
d-----        17-11-2020     18:59                .ipython
d-----        21-12-2021     16:26                .julia
d-----        31-12-2021     21:07                .jupyter
d-----        17-11-2021     13:45                .kaggle
d-----        09-08-2021     11:40                .keras
d-----        06-10-2021     10:37                .matplotlib
d-----        07-06-2021     13:29                .pyforest
d-----        20-01-2022     16:00                .spyder-py3
d-r---        06-09-2020     00:42                3D Objects
d-----        24-11-2021     15:11                anaconda3
d-----        11-10-2020     12:30                ansel
d-----        25-02-2022     13:05                chumma
d-r---        06-09-2020     00:42                Contacts
d-----        26-02-2022     23:58                demo
d-----        01-03-2022     06:33                demo_git_github
d-r---        27-02-2022     08:56                Desktop
d-r---        07-12-2021     20:01                Documents
d-r---        01-03-2022     05:40                Downloads
d-r---        06-09-2020     00:42                Favorites
d-----        26-02-2022     23:10                git_github
d-----        26-02-2022     23:31                git_github_1
d-----        06-12-2021     12:51                LIBTwinSVM
d-r---        06-09-2020     00:42                Links
d-r---        25-01-2022     17:05                Music
dar--l        01-03-2022     05:47                OneDrive
d-r---        10-01-2022     09:35                Pictures
d-----        13-03-2021     19:30                PycharmProjects
d-r---        06-09-2020     00:42                Saved Games
d-r---        06-09-2020     00:43                Searches
d-----        26-02-2022     12:14                testing
d-r---        28-02-2022     19:10                Videos
-a----        26-02-2022     23:30           1533 .bash_history
-a----        04-10-2021     17:26             43 .condarc
-a----        26-02-2022     23:04             52 .gitconfig
-a----        13-03-2021     17:18             14 .minttyrc
-a----        19-01-2022     16:12             25 .python_history
-a----        26-11-2020     18:24            116 debug.log
-a----        26-02-2022     23:42             75 demo1.py
-a----        23-01-2022     01:54           8614 python_hash_functions.ipynb


PS C:\Users\S.A.N>
```

Type here to search

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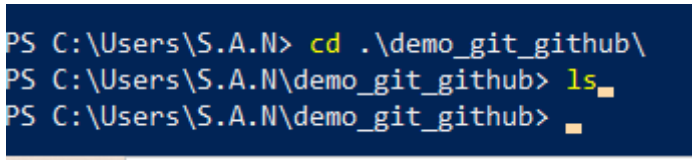
PS C:\Users\S.A.N> cd .\demo_git_github\
PS C:\Users\S.A.N\demo_git_github> ls
PS C:\Users\S.A.N\demo_git_github>

Any editors?

- Powershell + Any editors
- Notepad++

Windows PowerShell

```
    Directory: C:\Users\S.A.N


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        15-03-2021     20:14                .astropy
d-----        26-11-2021     05:50                .conda
d-----        15-03-2021     20:18                .config
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d-----        17-11-2020     18:59                .ipython
d-----        21-12-2021     16:26                .julia
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d-----        07-06-2021     13:29                .pyforest
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d-----        26-02-2022     23:58                demo
d-----        01-03-2022     06:33                demo_git_github
d-r---        27-02-2022     08:56                Desktop
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-a----        26-02-2022     23:42             75 demo1.py
-a----        23-01-2022     01:54           8614 python_hash_functions.ipynb


PS C:\Users\S.A.N> cd .\demo_git_github\
PS C:\Users\S.A.N\demo_git_github> ls
PS C:\Users\S.A.N\demo_git_github> start notepad++
PS C:\Users\S.A.N\demo_git_github>
```

*C:\Users\S.A.N\demo\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

demo1.py

```
1  a = 10
2  b = 15
3  c = 25
4  d = a + b + c
5  print('Addition of three numbers',d)
6
```

Python file | length : 77 | lines : 6 | Ln : 6 | Col : 1 | Pos : 78 | Windows (CR LF) | UTF-8 | INS

Type here to search

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*C:\Users\S.A.N\demo\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

demo1.py

```
a = 10
b = 15
c = 25
d = a + b + c
print('Addition of three numbers',d)
```

Python file | length : 77 | lines : 6 | Ln : 6 | Col : 1 | Pos : 78 | Windows (CR LF) | UTF-8 | INS

Type here to search

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anandprems/demo_git_github
github.com/anandprems/demo_git_github
R Package Docume... One Fourth Labs Online Certification... Home Electronics & Com... Get Into PC - Down... GitHub CoCalc - Online LaT... ShareLaTeX, Online... Tutorials - Overleaf,... Reading list

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Quick setup — if you've done this kind of thing before

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git branch -M main
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git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/anandprems/demo_git_github.git
git branch -M main
git push -u origin main
```

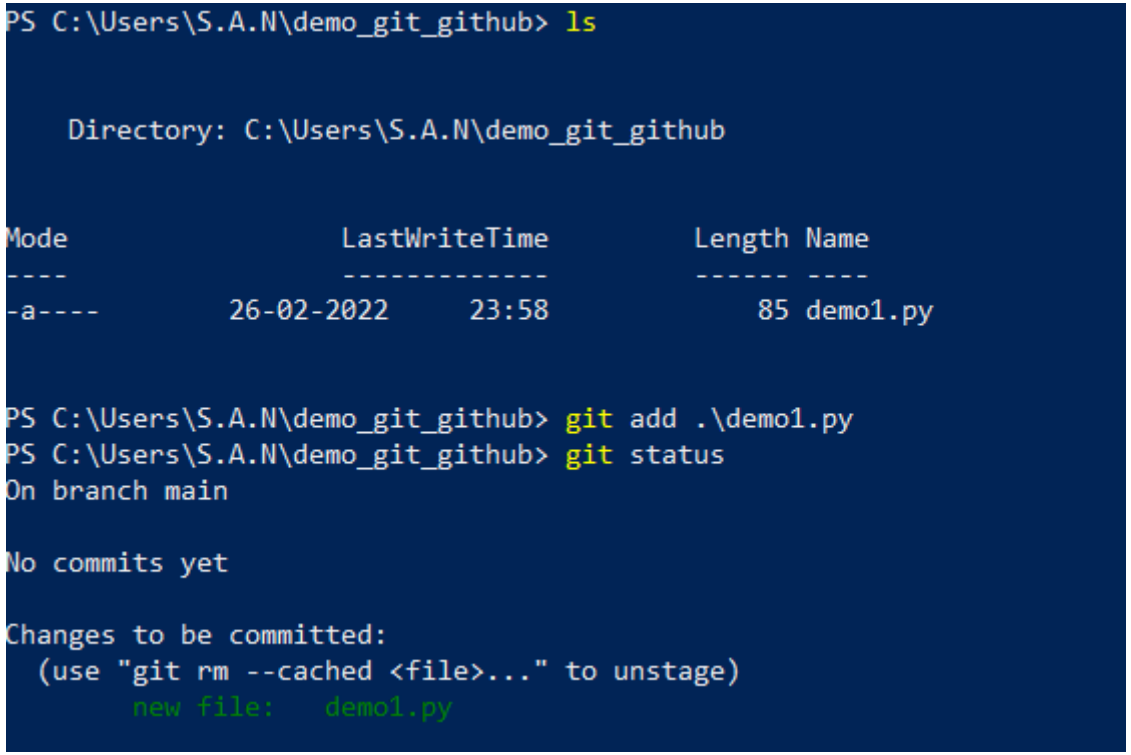
Type here to search 24°C ENG 07:42 01-03-2022

How to send from laptop to local repository?

- Still our code is in local place (laptop)
- How to send to local repository? – ADD + COMMIT

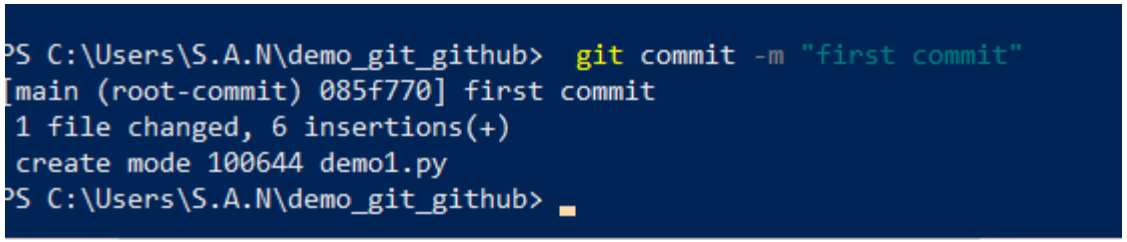
Git add

- Need to add to local repository
- Tracking our code like one file or more


PS C:\Users\S.A.N\demo_git_github> ls
Directory: C:\Users\S.A.N\demo_git_github
Mode LastWriteTime Length Name
---- ------------- ------ ----
-a---- 26-02-2022 23:58 85 demo1.py
PS C:\Users\S.A.N\demo_git_github> git add .\demo1.py
PS C:\Users\S.A.N\demo_git_github> git status
On branch main
No commits yet
Changes to be committed:
(use "git rm --cached <file>..." to unstage)
new file: demo1.py

Git commit

- Continuation of git add
- Git commit –m “xxxx”
- What we made change


PS C:\Users\S.A.N\demo_git_github> git commit -m "first commit"
[main (root-commit) 085f770] first commit
 1 file changed, 6 insertions(+)
 create mode 100644 demo1.py
PS C:\Users\S.A.N\demo_git_github>

anandprems / demo_git_github

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Quick setup — if you've done this kind of thing before

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git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/anandprems/demo_git_github.git
git push -u origin main
```

...or push an existing repository from the command line

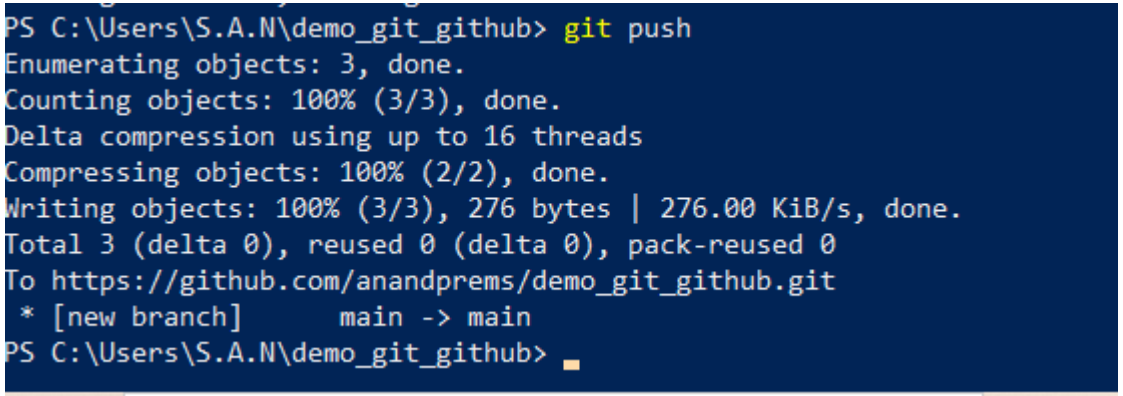
```
git remote add origin https://github.com/anandprems/demo_git_github.git
git branch -M main
git push -u origin main
```

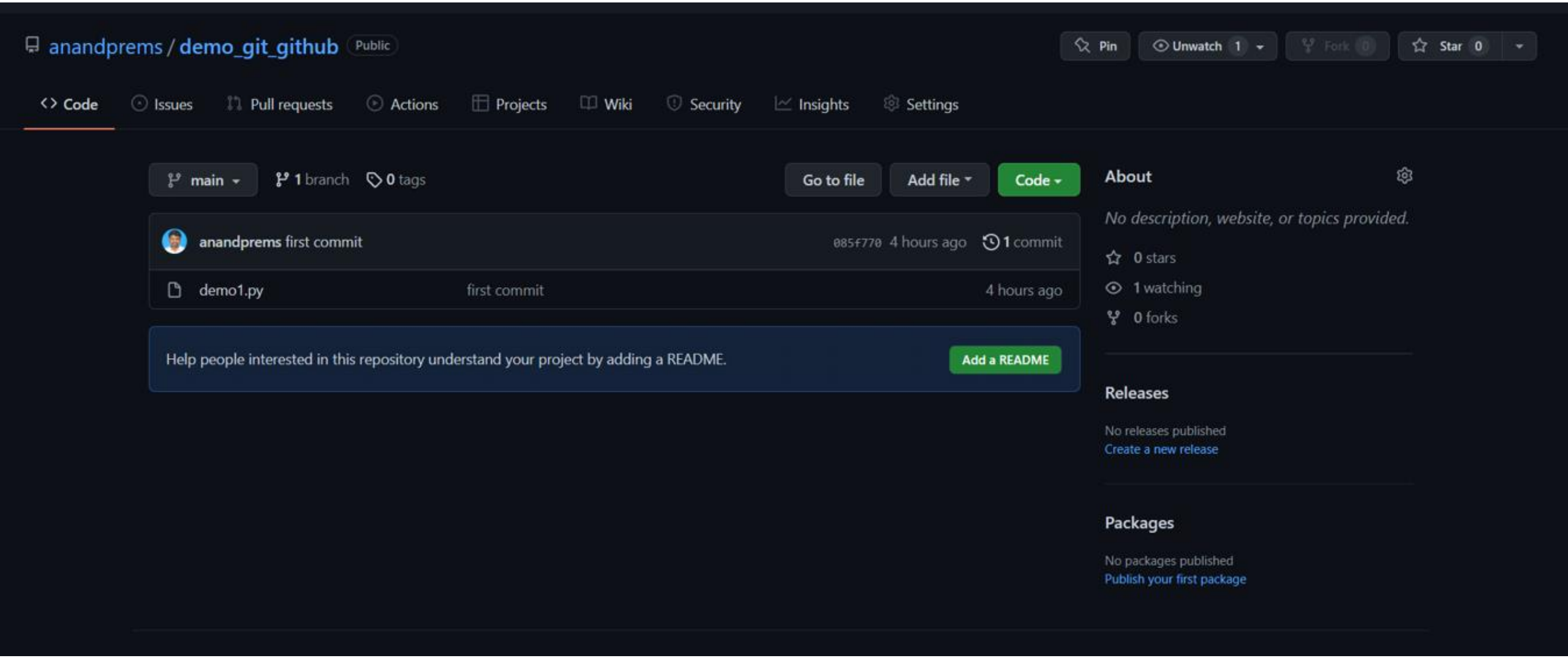
```
PS C:\Users\S.A.N\demo_git_github> git status
On branch main
Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)

nothing to commit, working tree clean
PS C:\Users\S.A.N\demo_git_github>
```

Git push

- From our system to local repository


PS C:\Users\S.A.N\demo_git_github> git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 276 bytes | 276.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/anandprems/demo_git_github.git
 * [new branch]   main -> main
PS C:\Users\S.A.N\demo_git_github>


anandprems / demo_git_github
Public
Pin
Unwatch 1
Fork 0
Star 0
Code
Issues
Pull requests
Actions
Projects
Wiki
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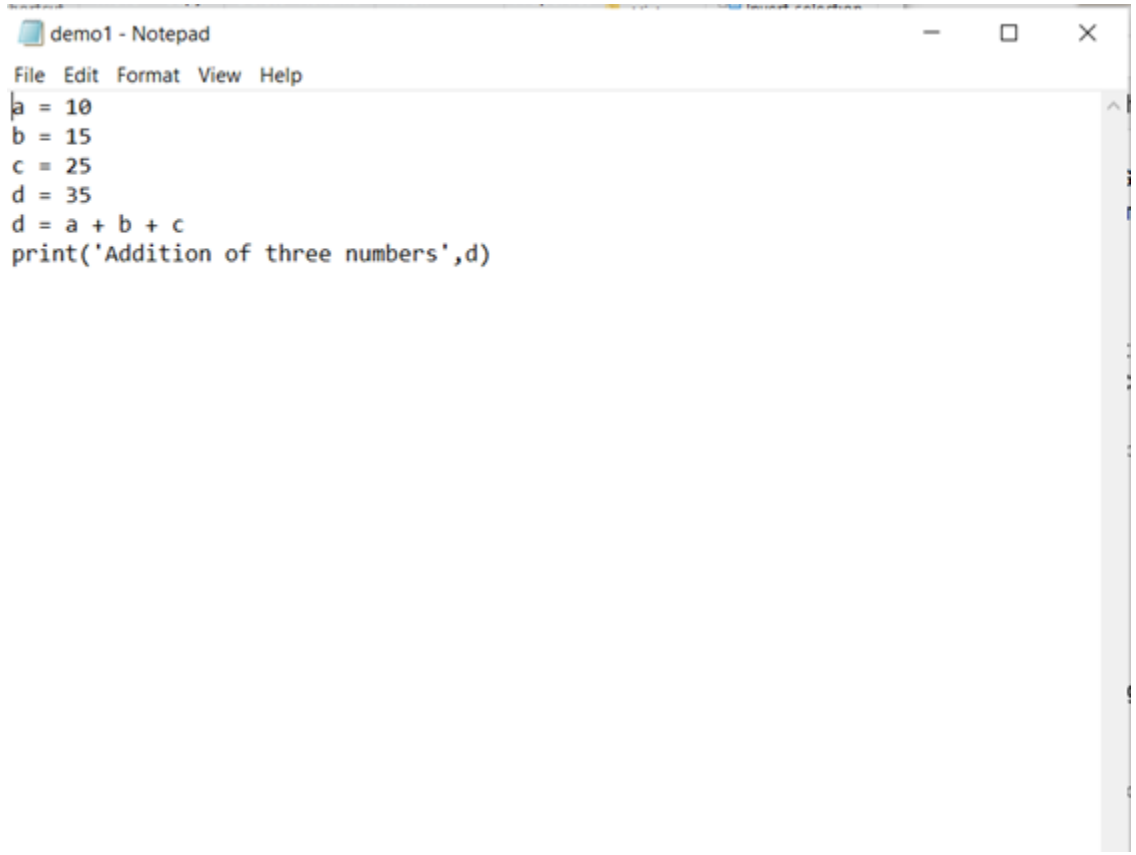
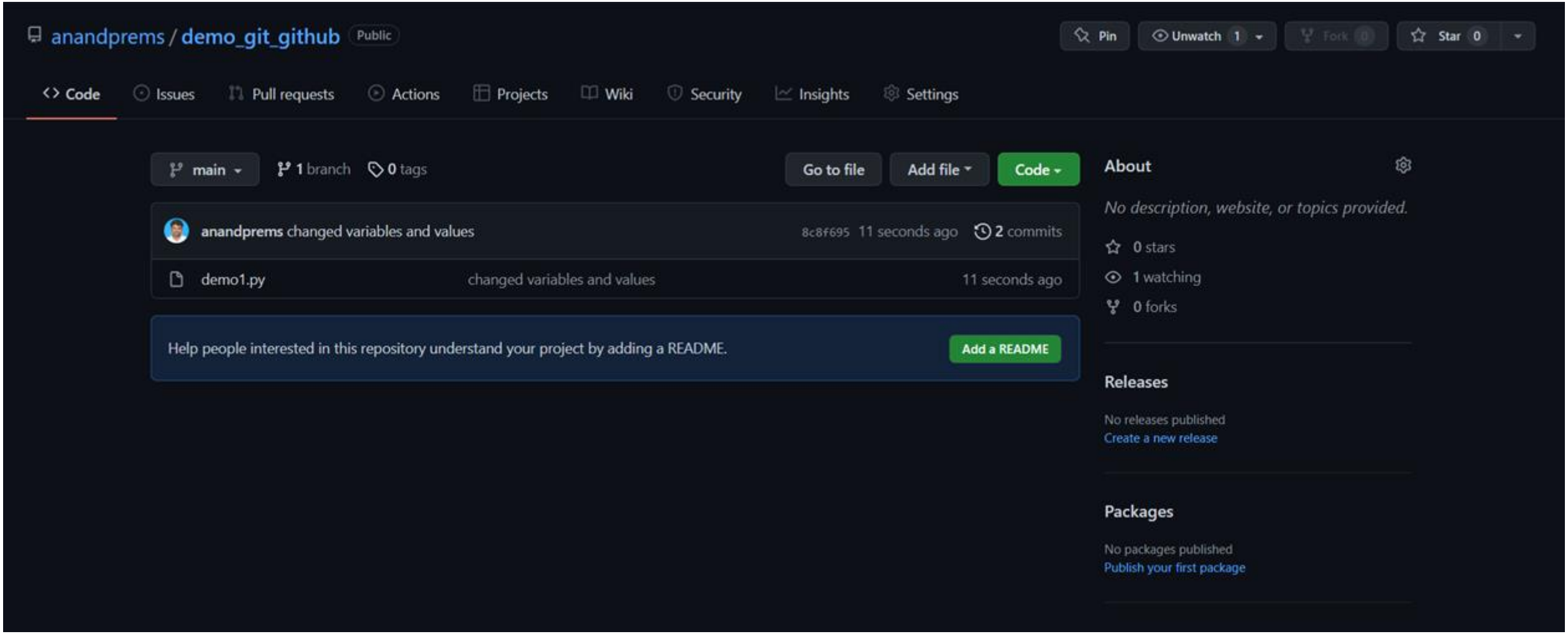
Insights
Settings
main
1 branch
0 tags
Go to file
Add file
Code
anandprems first commit
085f770 4 hours ago
1 commit
demo1.py
first commit
4 hours ago
Help people interested in this repository understand your project by adding a README.
Add a README
About
No description, website, or topics provided.
0 stars
1 watching
0 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package


demo1 - Notepad
File Edit Format View Help
a = 10
b = 15
c = 25
d = 35
d = a + b + c
print('Addition of three numbers',d)


anandprems / demo_git_github
Public
Pin
Unwatch 1
Fork 0
Star 0
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
main
1 branch
0 tags
Go to file
Add file
Code
anandprems changed variables and values
8c8f695 11 seconds ago
2 commits
demo1.py
changed variables and values
11 seconds ago
Help people interested in this repository understand your project by adding a README.
Add a README
About
No description, website, or topics provided.
0 stars
1 watching
0 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package

Git pull

```
PS C:\Users\S.A.N\demo_git_github> git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 711 bytes | 88.00 KiB/s, done.
From https://github.com/anandprems/demo_git_github
   085f770..8c8f695  main       -> origin/main
Updating 085f770..8c8f695
Fast-forward
 demo1.py | 5 +++--
 1 file changed, 3 insertions(+), 2 deletions(-)
PS C:\Users\S.A.N\demo_git_github>
```

Windows PowerShell

```
PS C:\Users\S.A.N\demo_git_github> ls


    Directory: C:\Users\S.A.N\demo_git_github


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        26-02-2022     23:58             85 demo1.py


PS C:\Users\S.A.N\demo_git_github> git add .\demo1.py
PS C:\Users\S.A.N\demo_git_github> git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   demo1.py

PS C:\Users\S.A.N\demo_git_github>  git commit -m "first commit"
[main (root-commit) 085f770] first commit
 1 file changed, 6 insertions(+)
 create mode 100644 demo1.py
PS C:\Users\S.A.N\demo_git_github> git status
On branch main
Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)

nothing to commit, working tree clean
PS C:\Users\S.A.N\demo_git_github> git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 276 bytes | 276.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/anandprems/demo_git_github.git
 * [new branch]      main -> main
PS C:\Users\S.A.N\demo_git_github> git pull
Already up to date.
PS C:\Users\S.A.N\demo_git_github> git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 711 bytes | 88.00 KiB/s, done.
From https://github.com/anandprems/demo_git_github
   085f770..8c8f695  main       -> origin/main
Updating 085f770..8c8f695
Fast-forward
 demo1.py | 5 +++--
 1 file changed, 3 insertions(+), 2 deletions(-)
PS C:\Users\S.A.N\demo_git_github>
```

File Explorer

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- 3D Objects
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28 items

demo1 - Notepad

File Edit Format View Help

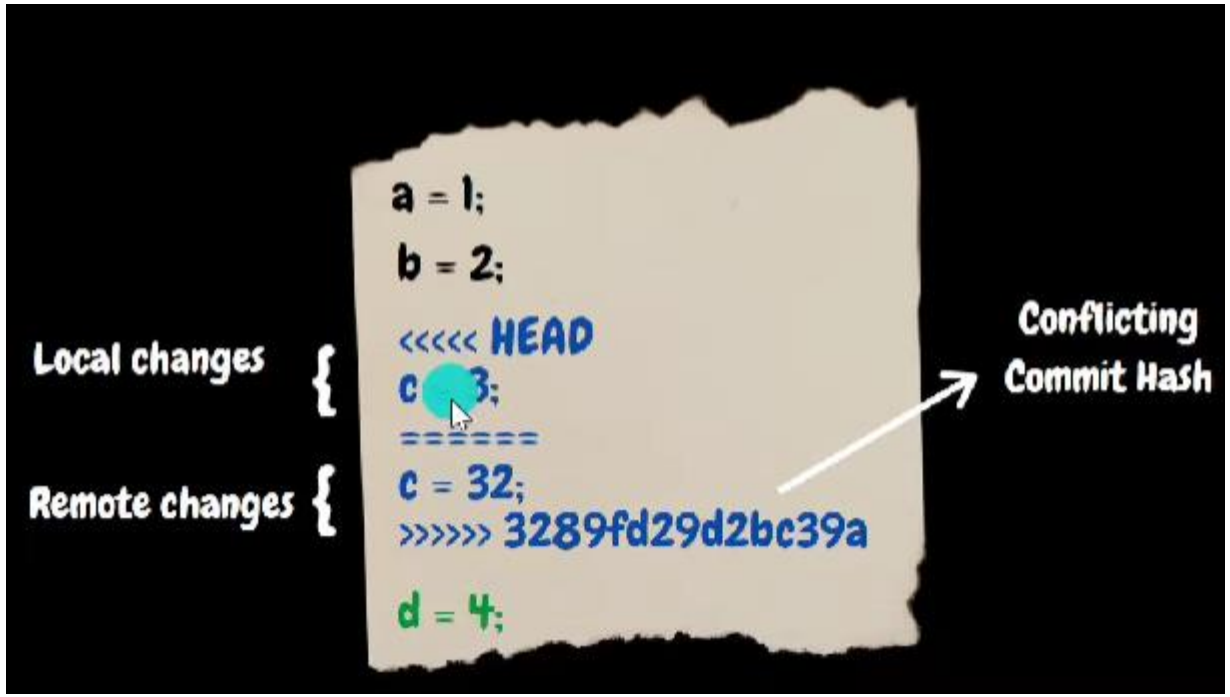
```
a = 10
b = 15
c = 25
d = 12
e = 10
f = a + b + c + d + e
print('Addition of three numbers',d)
```

Type here to search

24°C ENG 13:02 01-03-2022

Merge conflicts

- Sometimes we have conflict with some codings in same file like variables


a = 1;
b = 2;
<<<<< HEAD
c = 3;
=======
c = 32;
>>>>>> 3289fd29d2bc39a
d = 4;
Local changes
Remote changes
Conflicting
Commit Hash

C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

demo1.py

```
a = 100
b = 15
c = 25
d = 12
e = 10
f = a + b + c + d + e
print('Addition of three numbers',d)

```

Python file | length : 102 | lines : 8 | Ln : 1 | Col : 8 | Pos : 8 | Windows (CR LF) | UTF-8 | INS

Type here to search

24°C ENG 13:08 01-03-2022

```
PS C:\Users\S.A.N\demo_git_github> git commit -am "a vlue changed to 100"
[main aea5f4f] a vlue changed to 100
 1 file changed, 1 insertion(+), 1 deletion(-)
```

Editing demo_git_github/demo1.

github.com/anandprems/demo_git_github/edit/main/demo1.py

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demo_git_github / demo1.py in main

Cancel changes

Edit file | Preview changes

Spaces 2 No wrap

```
1  a = 1000
2  b = 15
3  c = 25
4  d = 12
5  e = 10
6  f = a + b + c + d + e
7  print('Addition of three numbers',d)
8
```

Type here to search

24°C ENG 13:11 01-03-2022

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main | 1 branch | 0 tags | Go to file | Add file | Code

anandprems changed a value to 1000 — eb1f5e7 now — 3 commits

demo1.py	changed a value to 1000	now

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No description, website, or topics provided.

0 stars
1 watching
0 forks

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demo_git_github/demo1.py at m

github.com/anandprems/demo_git_github/blob/main/demo1.py

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main demo_git_github / demo1.py / Jump to

anandprems changed a value to 1000

1 contributor

7 lines (7 sloc) | 96 Bytes

```
1  a = 1000
2  b = 15
3  c = 25
4  d = 12
5  e = 10
6  f = a + b + c + d + e
7  print('Addition of three numbers',d)
```

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C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

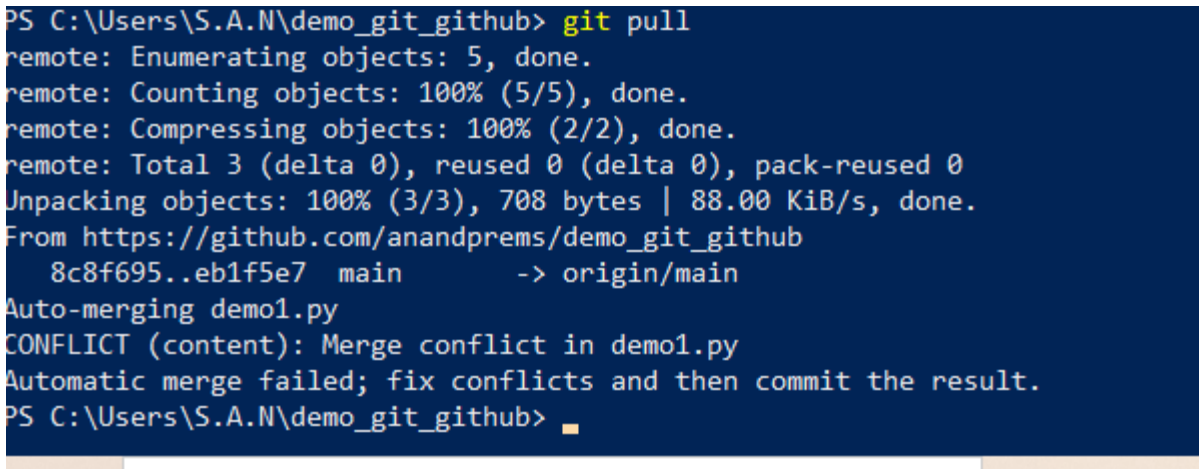
demo1.py

```
1  a = 100
2  b = 15
3  c = 25
4  d = 12
5  e = 10
6  f = a + b + c + d + e
7  print('Addition of three numbers',d)
8
```

Python file | length : 102 lines : 8 | Ln : 1 Col : 8 Pos : 8 | Windows (CR LF) | UTF-8 | INS

Type here to search

24°C ENG 13:12 01-03-2022


PS C:\Users\S.A.N\demo_git_github> git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 708 bytes | 88.00 KiB/s, done.
From https://github.com/anandprems/demo_git_github
8c8f695..eb1f5e7 main -> origin/main
Auto-merging demo1.py
CONFLICT (content): Merge conflict in demo1.py
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\S.A.N\demo_git_github>

C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

demo1.py

```
<<<<<<< HEAD
a = 100
=======
a = 1000
>>>>>>> eb1f5e72ff24e5cd6d219bd4b4ff49acae9bf05a
b = 15
c = 25
d = 12
e = 10
f = a + b + c + d + e
print('Addition of three numbers',d)

```

Python file | length : 185 | lines : 12 | Ln : 1 | Col : 8 | Pos : 8 | Windows (CR LF) | UTF-8 | INS

Type here to search

24°C ENG 13:14 01-03-2022

C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

demo1.py

```
a = 1
b = 15
c = 25
d = 12
e = 10
f = a + b + c + d + e
print('Addition of three numbers',d)
```

Python file | length : 100 | lines : 8 | Ln : 8 | Col : 1 | Pos : 101 | Windows (CR LF) | UTF-8 | INS

Type here to search

24°C ENG 13:16 01-03-2022

```
PS C:\Users\S.A.N\demo_git_github> git commit -am "a value finally modified as 1 not 100 and 1000"
[main 1cc0134] a value finally modified as 1 not 100 and 1000
```

demo_git_github/demo1.py at m

github.com/anandprems/demo_git_github/blob/main/demo1.py

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main demo_git_github / demo1.py / Jump to Go to file ...

anandprems changed a value to 1000 Latest commit eb1f5e7 7 minutes ago History

1 contributor

7 lines (7 sloc) 96 Bytes Raw Blame

```
1  a = 1000
2  b = 15
3  c = 25
4  d = 12
5  e = 10
6  f = a + b + c + d + e
7  print('Addition of three numbers',d)
```

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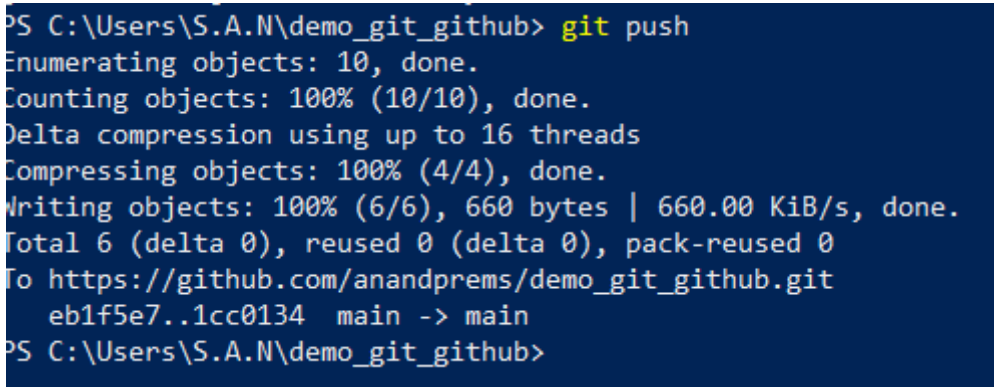
PS C:\Users\S.A.N\demo_git_github> git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 660 bytes | 660.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/anandprems/demo_git_github.git
eb1f5e7..1cc0134 main -> main
PS C:\Users\S.A.N\demo_git_github>

demo_git_github/demo1.py at m
github.com/anandprems/demo_git_github/blob/main/demo1.py
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main demo_git_github / demo1.py / Jump to Go to file ...

anandprems a value finally modified as 1 not 100 and 1000 Latest commit 1cc0134 3 minutes ago History

1 contributor

7 lines (7 sloc) | 93 Bytes Raw Blame

```
1  a = 1
2  b = 15
3  c = 25
4  d = 12
5  e = 10
6  f = a + b + c + d + e
7  print('Addition of three numbers',d)
```

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Commits · anandprems/demo_git_github

github.com/anandprems/demo_git_github/commits/main

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main

Commits on Mar 1, 2022

a value finally modified as 1 not 100 and 1000 anandprems committed 4 minutes ago		1cc0134
changed a value to 1000 anandprems committed 9 minutes ago	Verified	eb1f5e7
a vlue changed to 100 anandprems committed 11 minutes ago		aea5f4f
changed variables and values anandprems committed 22 minutes ago	Verified	8c8f695
first commit anandprems committed 4 hours ago		085f770

Newer | Older

Type here to search

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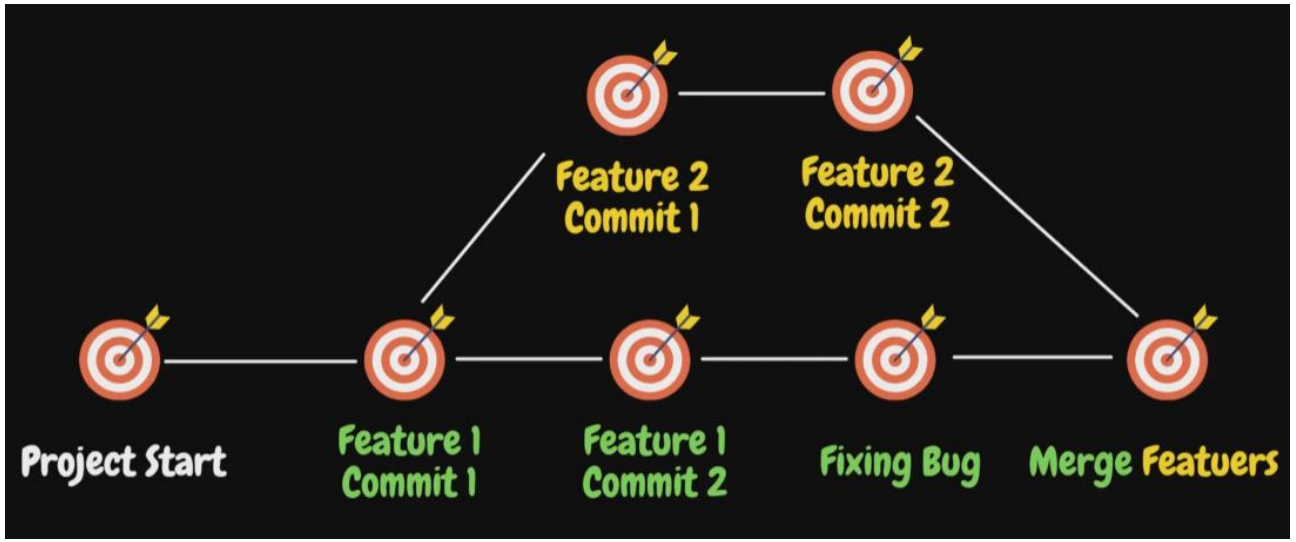
Git reset

- Git reset –hard <commit hash>
- Git reset – hard orgin/master

Branching

Project Start
Feature 1
Commit 1
Feature 2
Commit 1
Feature 2
Commit 2
Feature 1
Commit 2


Feature 2
Commit 1
Feature 2
Commit 2
Project Start
Feature 1
Commit 1
Feature 1
Commit 2
Fixing Bug
Merge Featuers

```
PS C:\Users\S.A.N\demo_git_github> git branch
* main
```

```
PS C:\Users\S.A.N\demo_git_github> git checkout -b "spnk"
Switched to a new branch 'spnk'
PS C:\Users\S.A.N\demo_git_github>
```

```
PS C:\Users\S.A.N\demo_git_github> git branch
  main
* spnk
```

C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

demo1.py

```
a = 1
b = 15
c = 25
d = 12
e = 10
f = a * b * c * d * e
print('multiply of three numbers',d)
```

Python file | length : 100 lines : 8 | Ln : 7 Col : 16 Pos : 78 | Windows (CR LF) | UTF-8 | INS

Type here to search

24°C ENG 13:32 01-03-2022

```
PS C:\Users\S.A.N\demo_git_github> git commit -am "for multiplication"
[spnk eb59b6a] for multiplication
 1 file changed, 2 insertions(+), 2 deletions(-)
PS C:\Users\S.A.N\demo_git_github>
```

```
PS C:\Users\S.A.N\demo_git_github> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\S.A.N\demo_git_github>
```

C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

demo1.py

```
a = 1
b = 15
c = 25
d = 12
e = 10
f = a + b + c + d + e
print('Addition of three numbers',d)

```

Python file | length : 100 lines : 8 | Ln : 7 Col : 16 Pos : 78 | Windows (CR LF) | UTF-8 | INS

Type here to search

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C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++

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demo1.py

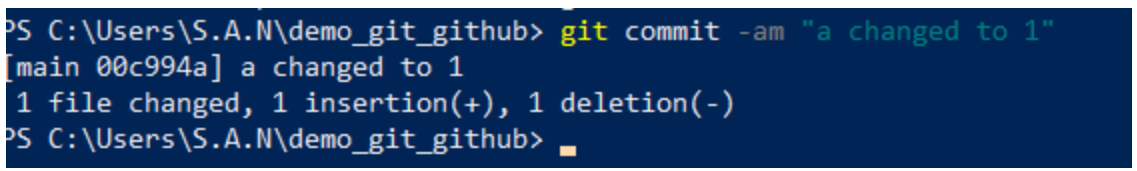
```
a = 0
b = 15
c = 25
d = 12
e = 10
f = a + b + c + d + e
print('Addition of three numbers',d)

```

Python file | length : 100 | lines : 8 | Ln : 1 | Col : 6 | Pos : 6 | Windows (CR LF) | UTF-8 | INS

Type here to search

24°C ENG 13:36 01-03-2022


PS C:\Users\S.A.N\demo_git_github> git commit -am "a changed to 1"
[main 00c994a] a changed to 1
1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\S.A.N\demo_git_github>

```
PS C:\Users\S.A.N\demo_git_github> git merge spnk
Auto-merging demo1.py
Merge made by the 'ort' strategy.
 demo1.py | 4 ++--
 1 file changed, 2 insertions(+), 2 deletions(-)
```

C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

demo1.py

```
a = 0
b = 15
c = 25
d = 12
e = 10
f = a * b * c * d * e
print('multiply of three numbers',d)

```

Python file | length : 100 | lines : 8 | Ln : 1 | Col : 6 | Pos : 6 | Windows (CR LF) | UTF-8 | INS

Type here to search

24°C ENG 13:38 01-03-2022

```
PS C:\Users\S.A.N\demo_git_github> git push
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 16 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 877 bytes | 438.00 KiB/s, done.
Total 9 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/anandprems/demo_git_github.git
   1cc0134..33570a4  main -> main
PS C:\Users\S.A.N\demo_git_github>
```

demo_git_github/demo1.py at m

github.com/anandprems/demo_git_github/blob/main/demo1.py

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main demo_git_github / demo1.py / Jump to Go to file ...

anandprems Merge branch 'spnk' Latest commit 33570a4 2 minutes ago History

1 contributor

7 lines (7 sloc) 93 Bytes Raw Blame

```
1  a = 0
2  b = 15
3  c = 25
4  d = 12
5  e = 10
6  f = a * b * c * d * e
7  print('multiply of three numbers',d)
```

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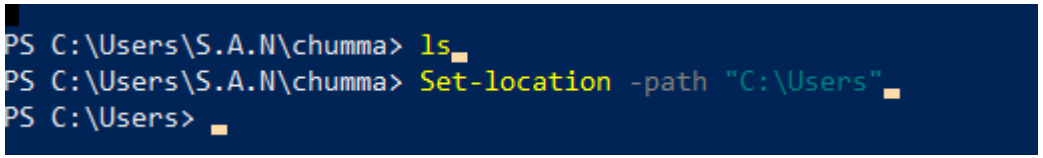
How to change from one folder or directory to another?