

Git & GitHub

Premanand S

The background of the slide features several thin, curved lines in a light gray color, some solid and some dashed, creating a sense of motion or a stylized globe. A large red speech bubble is positioned on the left side of the slide.

Technical understanding

- **Git - tool**
- **Github - website**

GIT – Intro

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

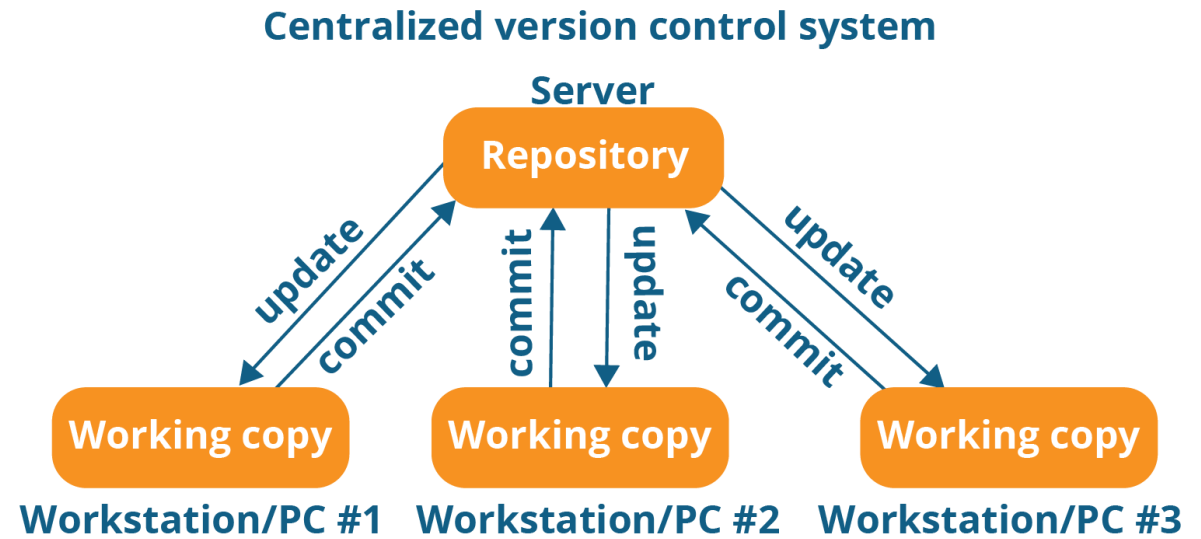
Version Control

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

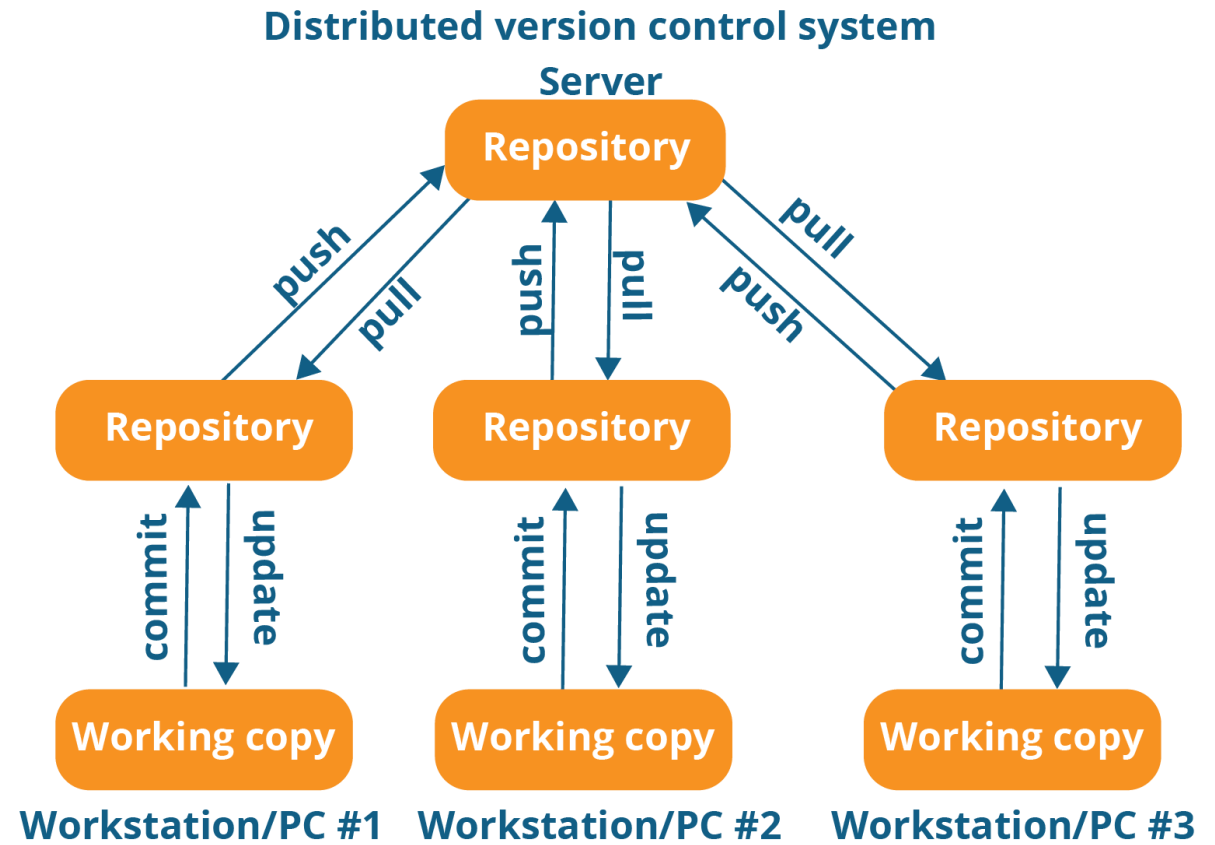
Types of version control

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

Centralized Version Control System



Distributed Version Control System (DVCS)



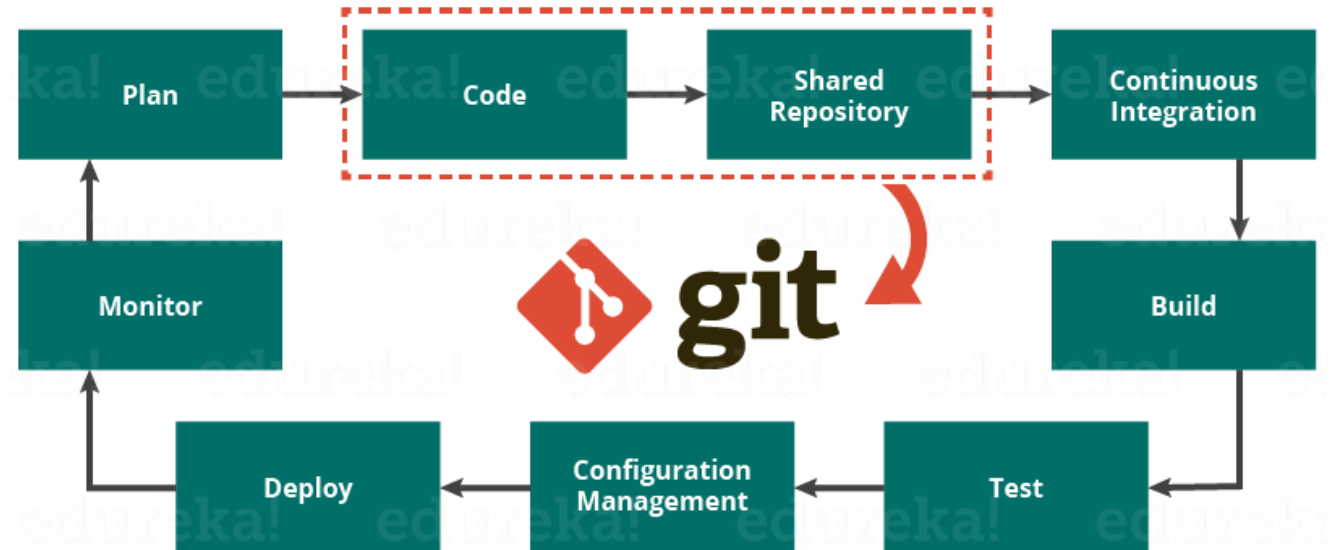
What is GIT?

- **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?

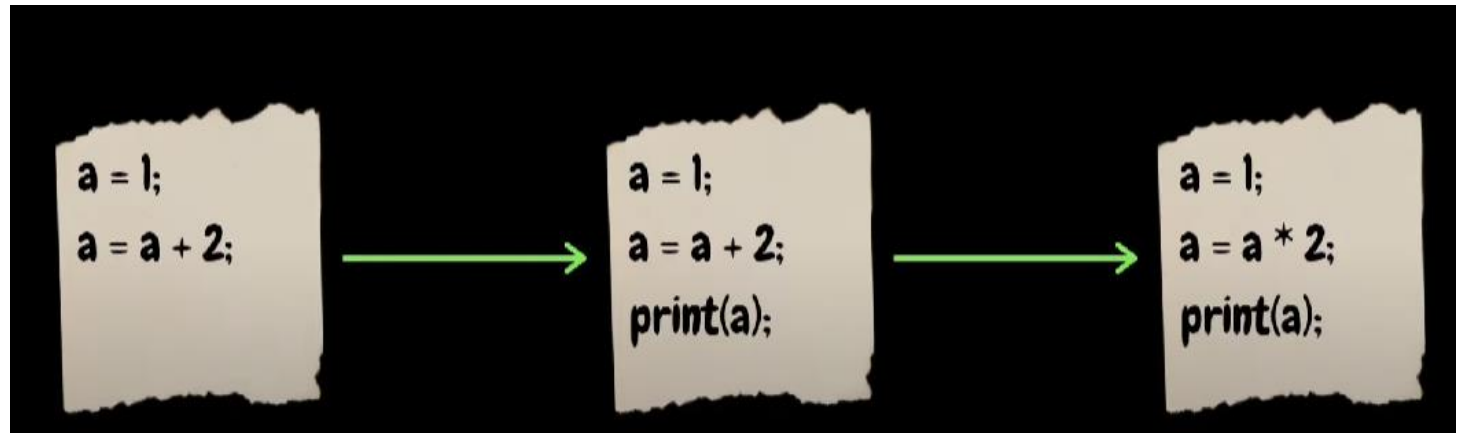


The background of the slide features several thin, curved lines in a light gray color, some solid and some dashed, creating a sense of motion or a stylized globe. A large red speech bubble is positioned on the left side of the slide.

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

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *

 anandprems ▾

Repository name *

demo_git_github ✓

Great repository names are s demo_git_github is available. inspiration? How about [bug-free-couscous?](#)

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ Add a README file

This is where you can write a long description for your project. [Learn more.](#)

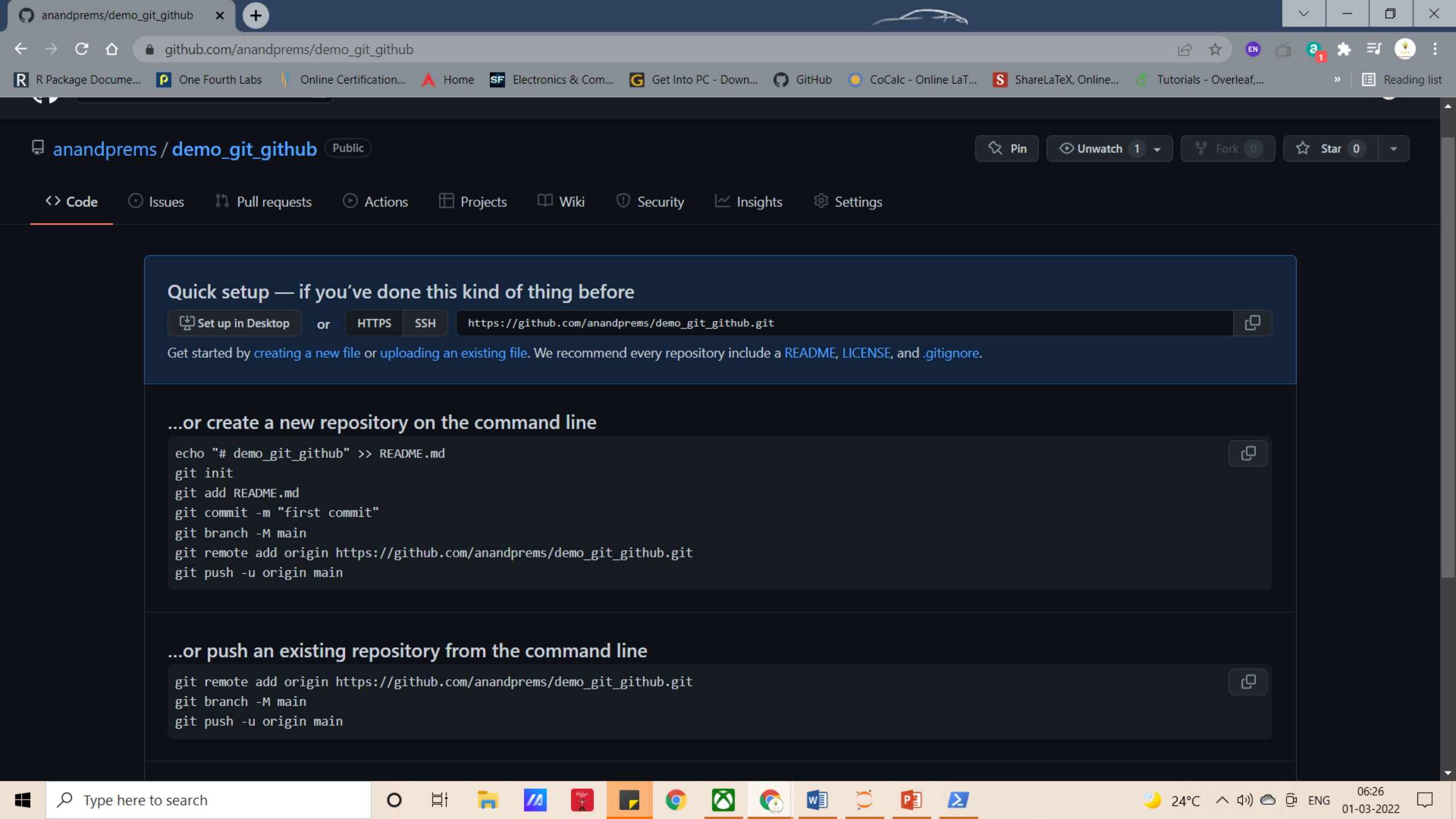
☐ Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)



☐ Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

Create repository




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
```



PowerShell

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

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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>
```

Git clone

- If you need to alter the code from existing or new repository from GitHub account
- Download and 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.
```

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		LIBTSwinSVM
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>


```
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>
```

A red speech bubble with a white question mark inside, pointing towards the list of editors.

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
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> 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

Windows Search

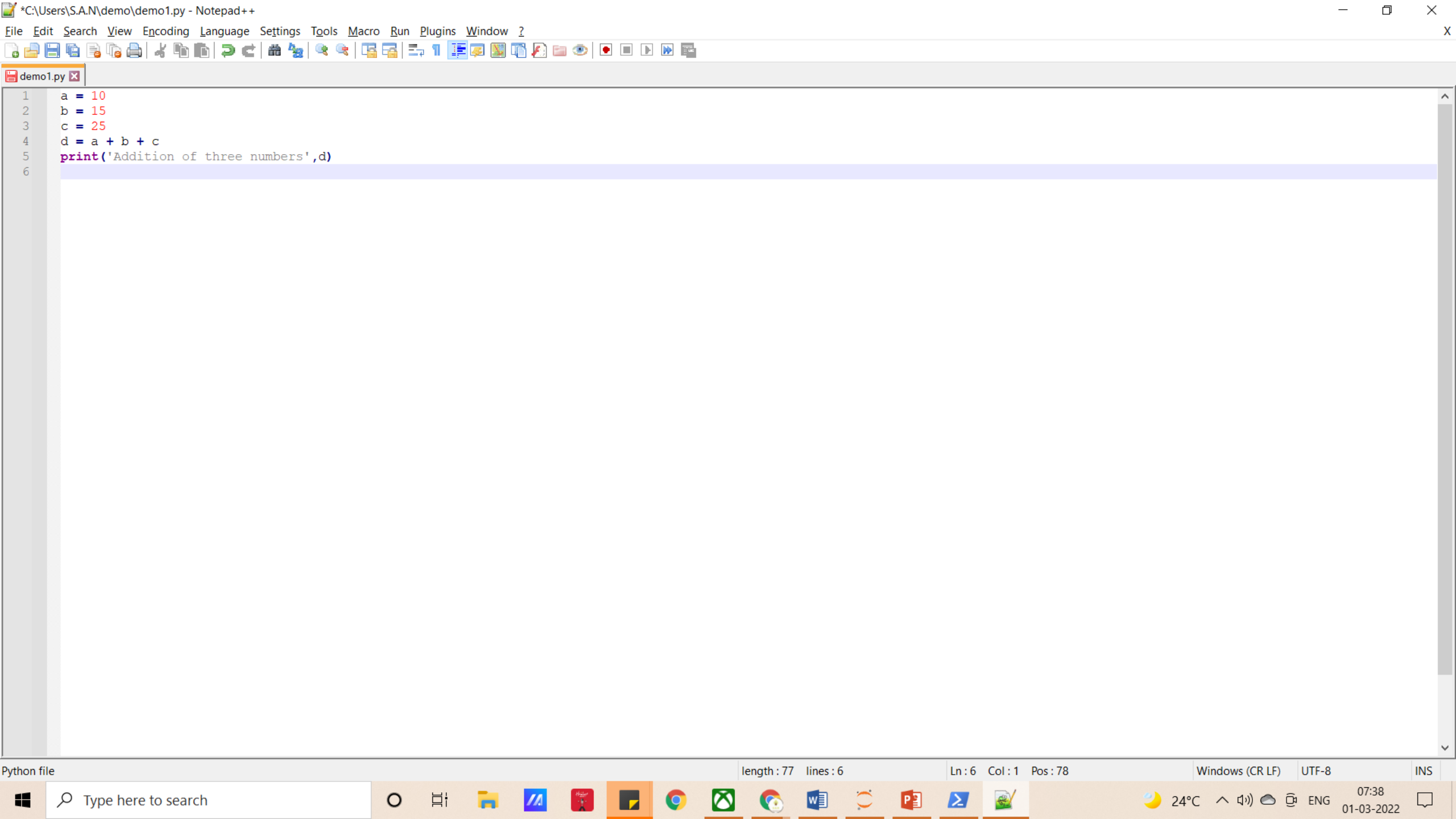
Type here to search

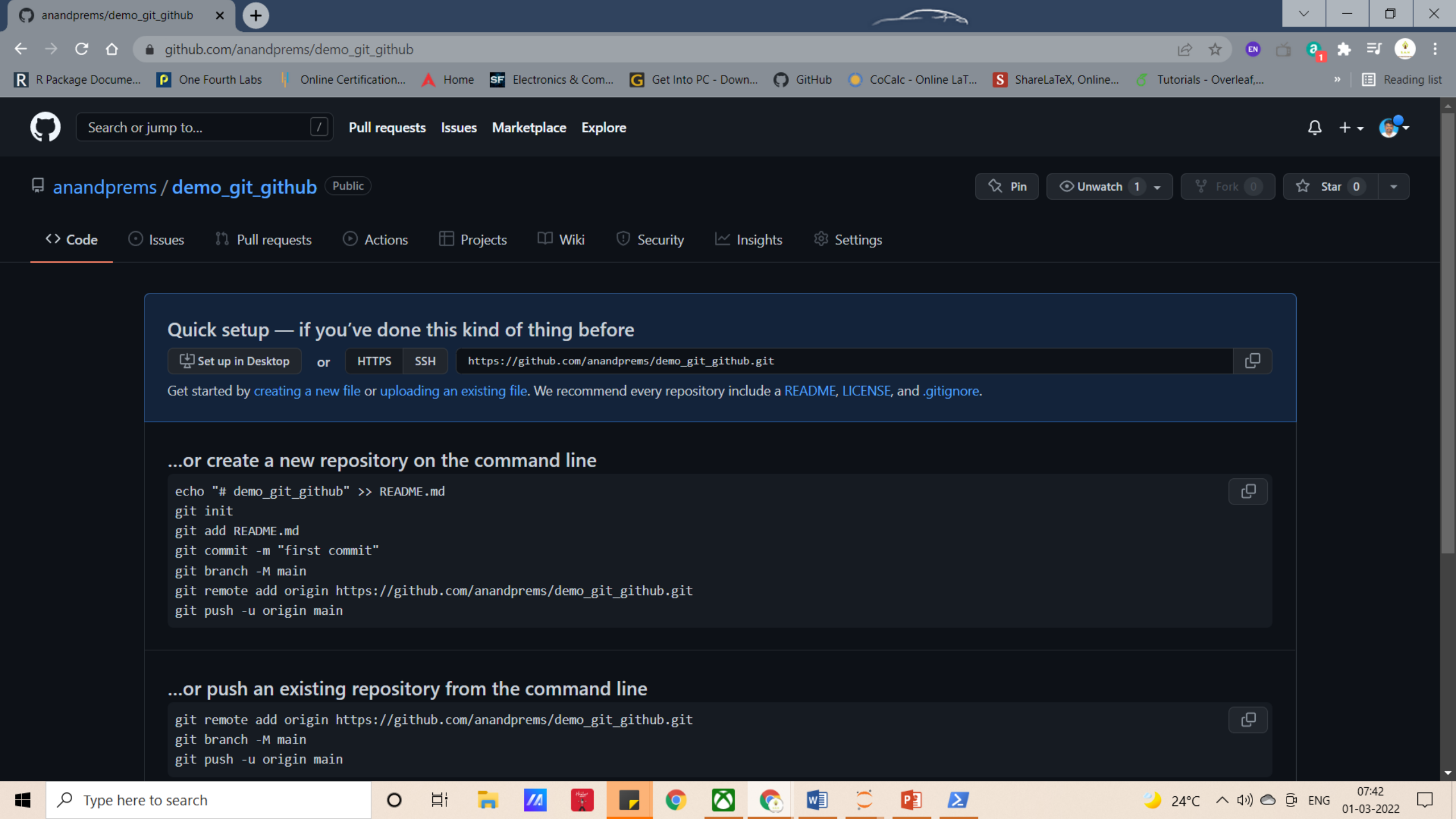
Taskbar

24°C



06:37

01-03-2022






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
```



The background of the slide features a series of thin, light gray curved lines that sweep across the top and bottom corners, creating a sense of motion and depth. A solid red rectangular box is positioned on the left side, containing the main title text in white.

How to send from
laptop to local
repository?

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

The background of the slide features several thin, curved lines in a light gray color, some solid and some dashed, creating a modern, abstract design.

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:
```

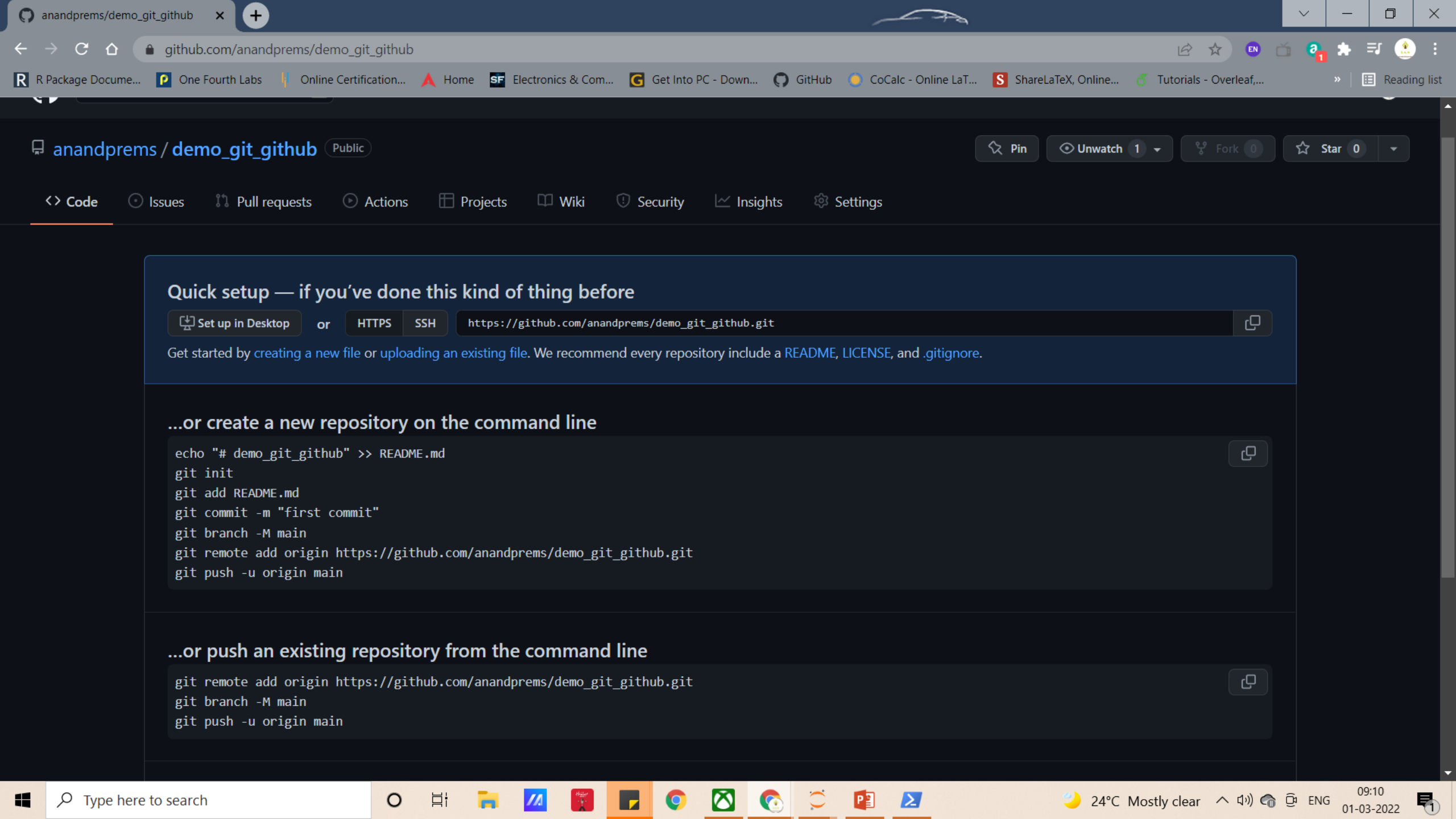
```
(use "git rm --cached <file>..." to unstage)
```

```
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> █
```



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
```

```
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>
```

The background of the slide features several thin, curved lines in a light gray color, some solid and some dashed, creating a sense of motion or a stylized globe. A large red speech bubble is positioned on the left side of the slide.

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> █
```

 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](#)



The image shows a screenshot of a Notepad application window. The title bar at the top reads "demo1 - Notepad" and includes standard window control buttons (minimize, maximize, close). Below the title bar is a menu bar with the options "File", "Edit", "Format", "View", and "Help". The main text area contains the following Python code:


```
a = 10  
b = 15  
c = 25  
d = 35  
d = a + b + c  
print('Addition of three numbers',d)
```

A vertical scrollbar is visible on the right side of the text area.

[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>
```

```
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

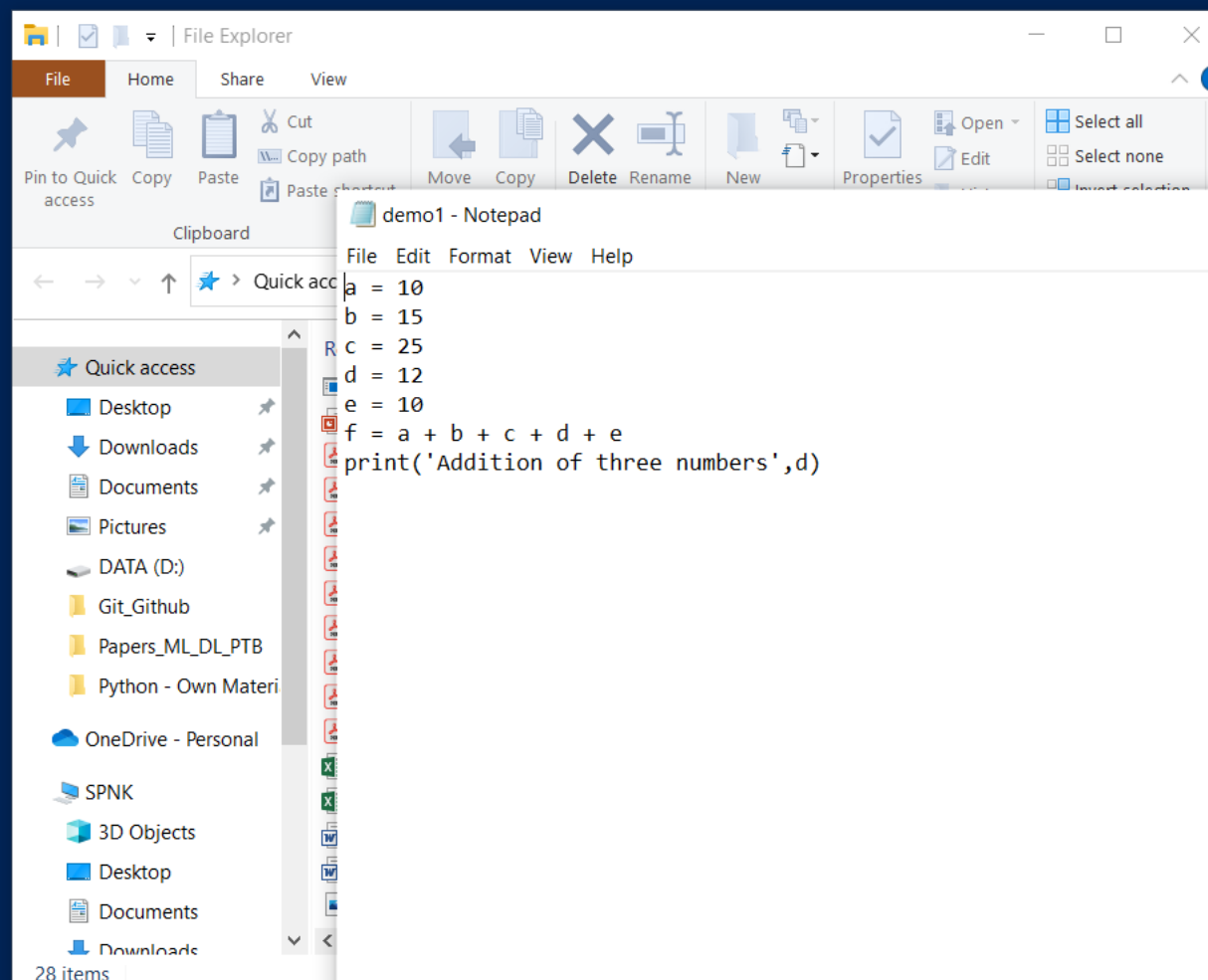
Updating 085f770..8c8f695

Fast-forward

demo1.py | 5 +++--

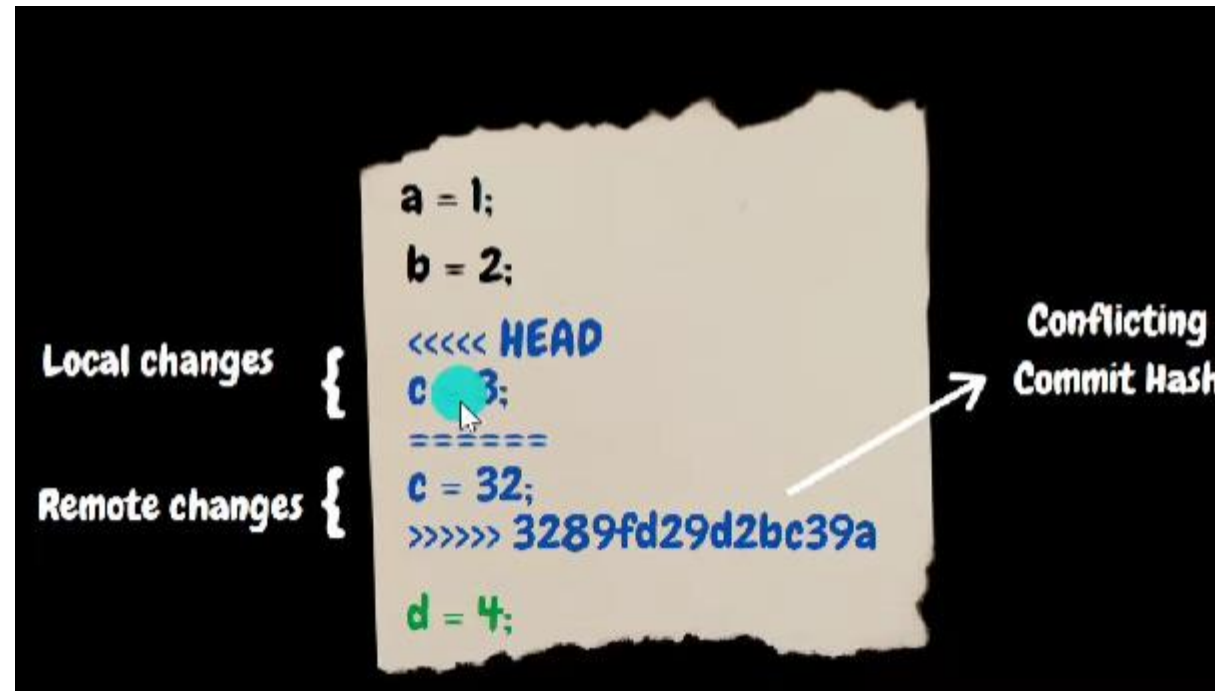
1 file changed, 3 insertions(+), 2 deletions(-)

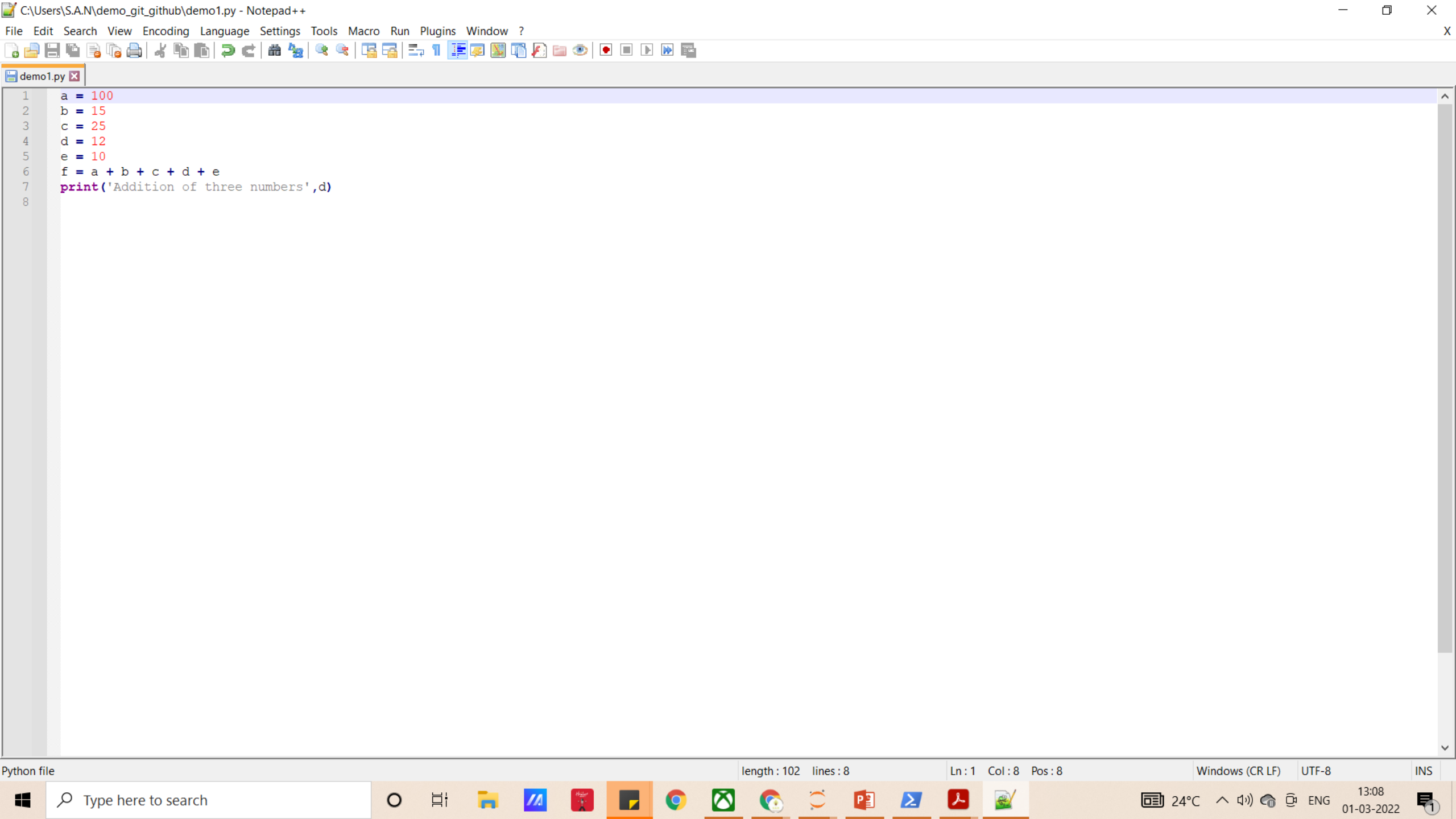
```
PS C:\Users\S.A.N\demo_git_github>
```



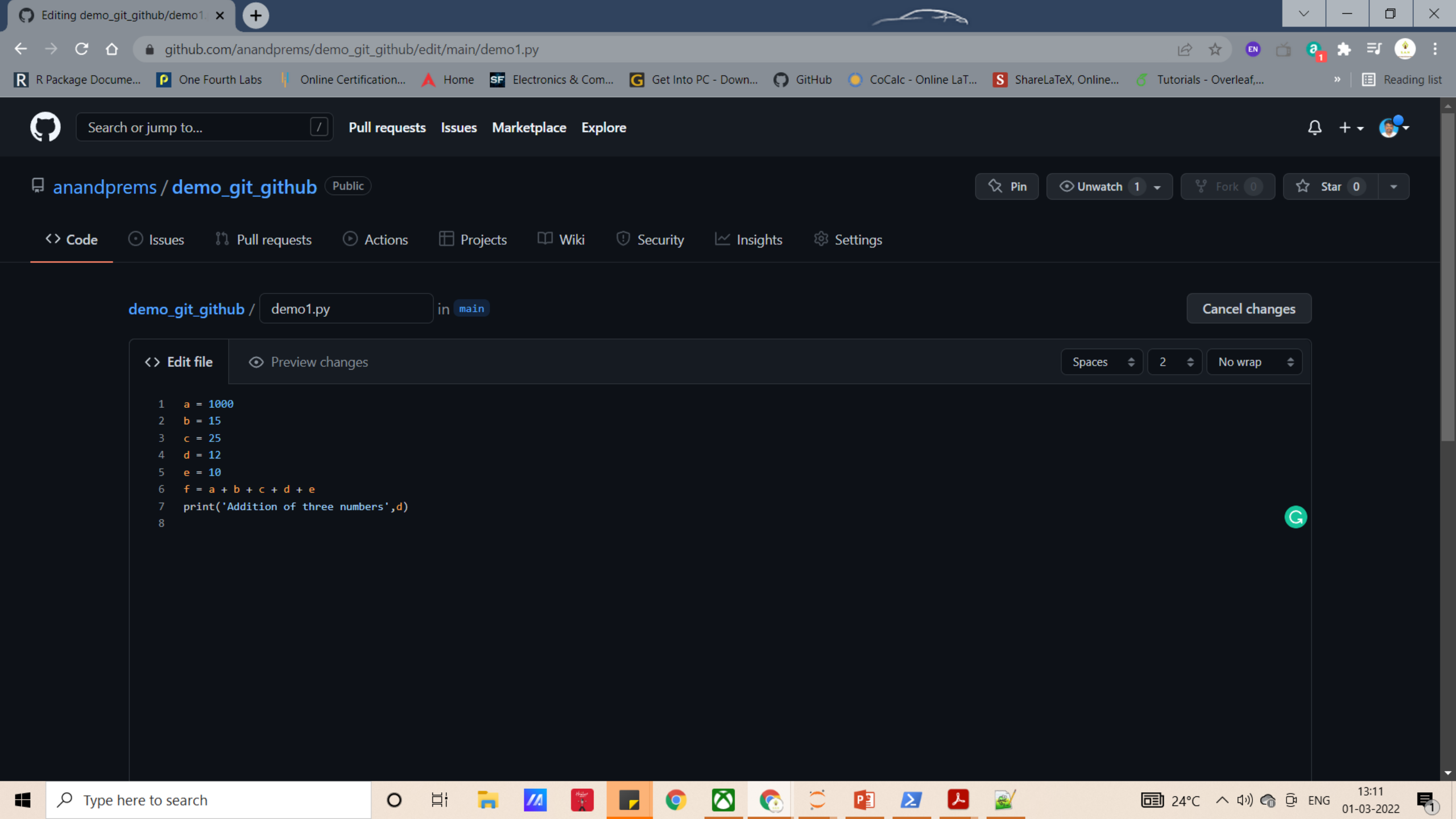
Merge conflicts

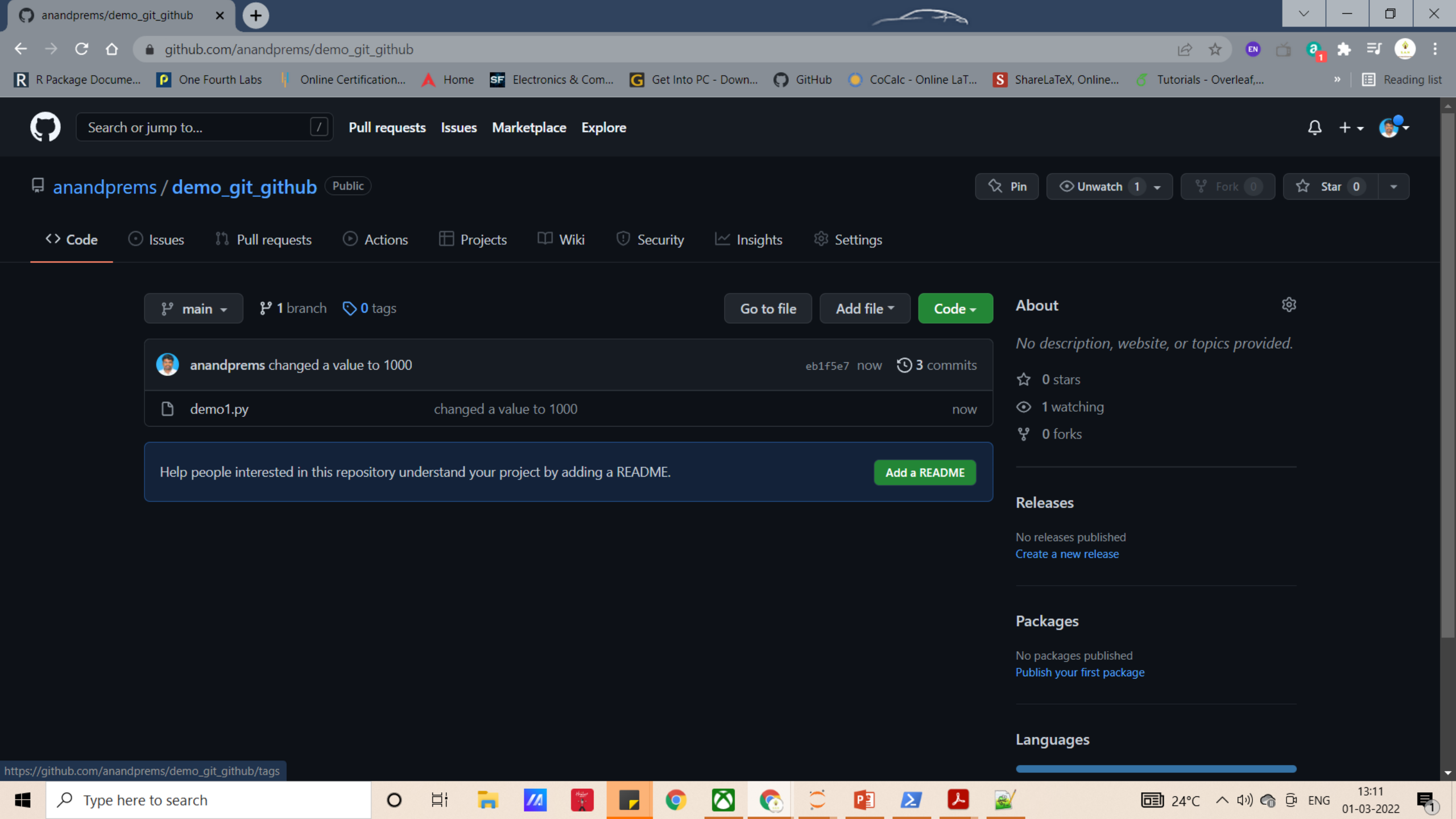
- Sometimes we have conflict with some codings in same file like variables

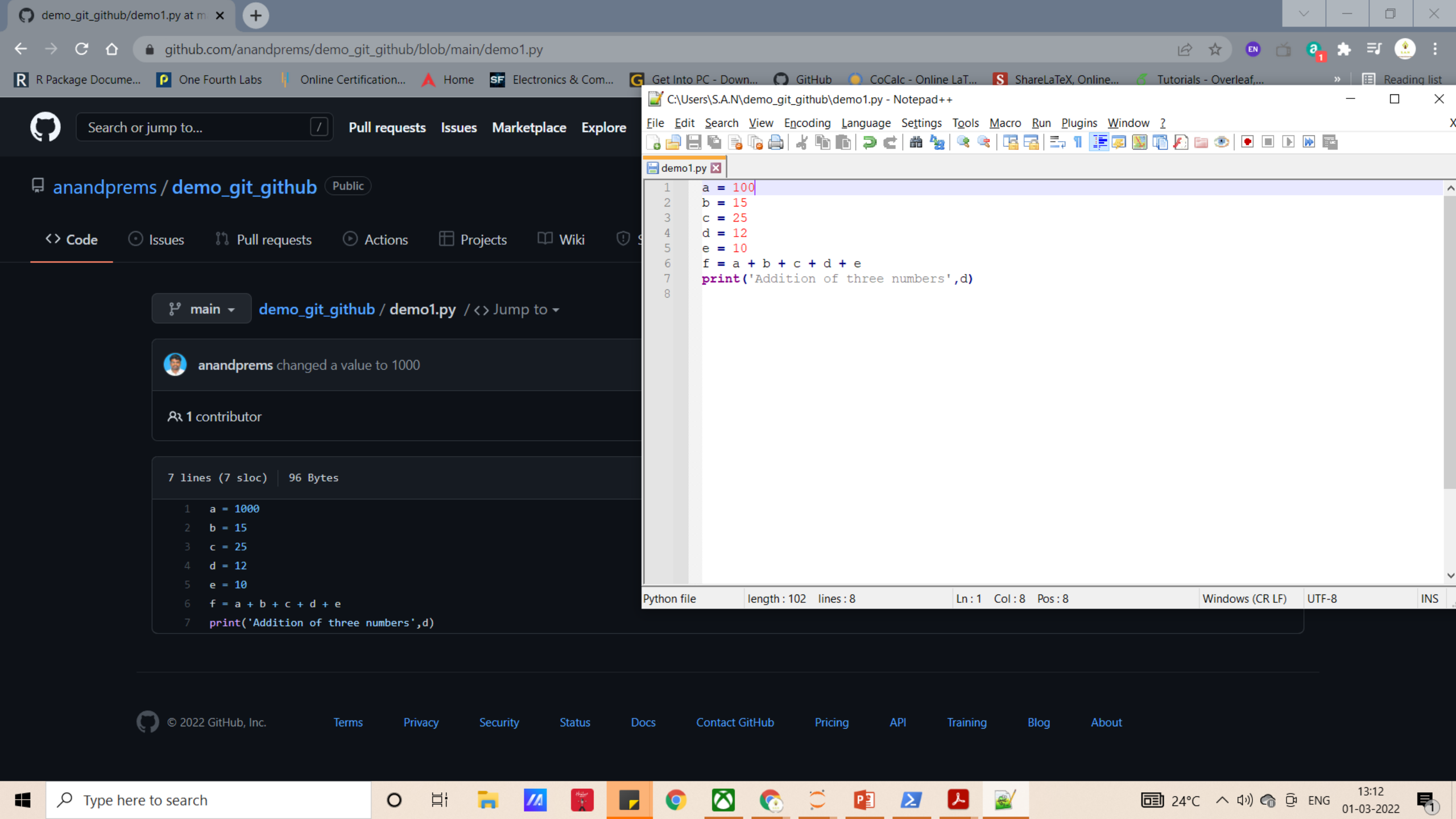




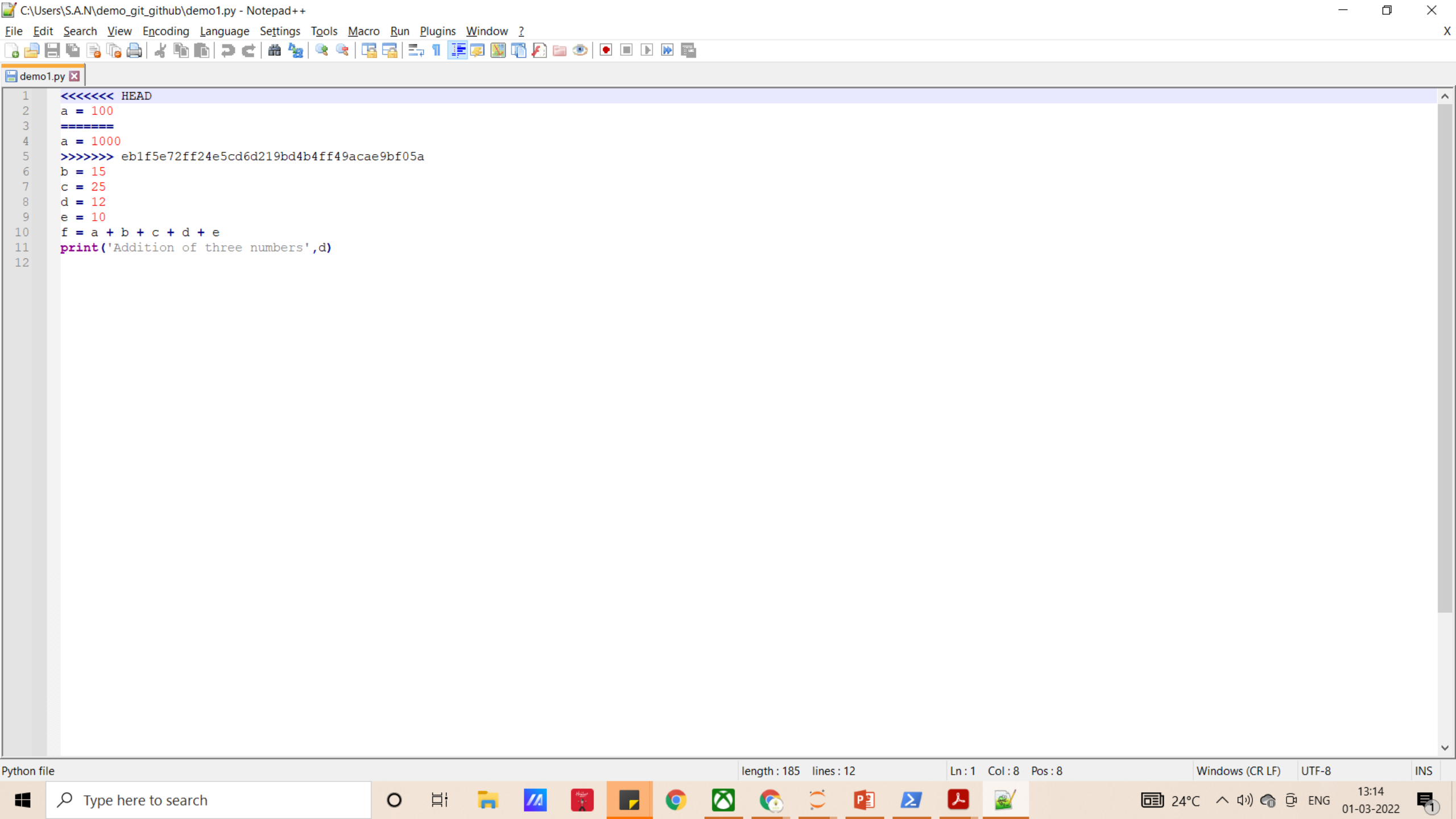
```
PS C:\Users\S.A.N\demo_git_github> git commit -am "a vlue changed to 100"  
[main aea5f4f] a vlue changed to 100  
1 file changed, 1 insertion(+), 1 deletion(-)
```

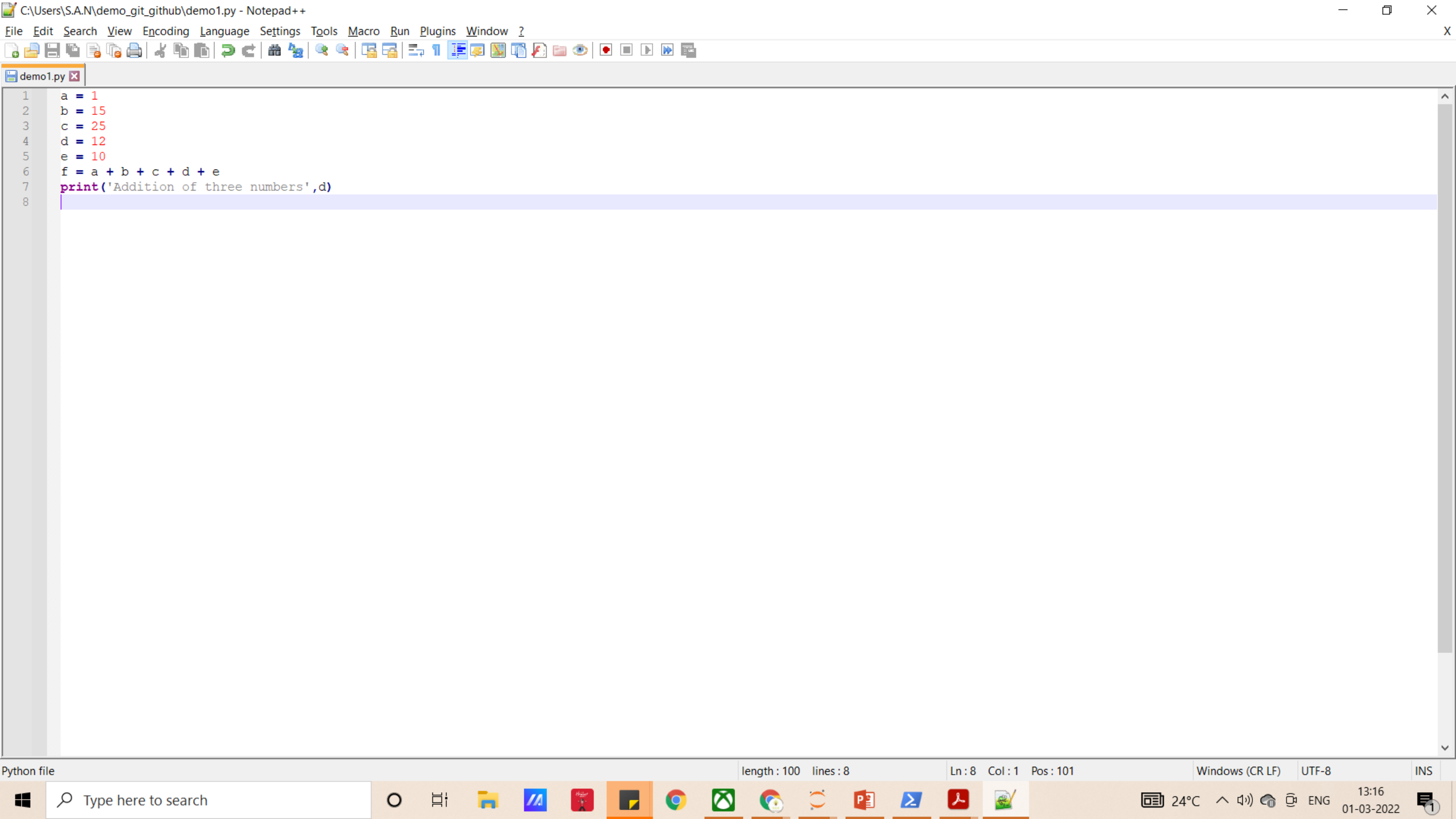






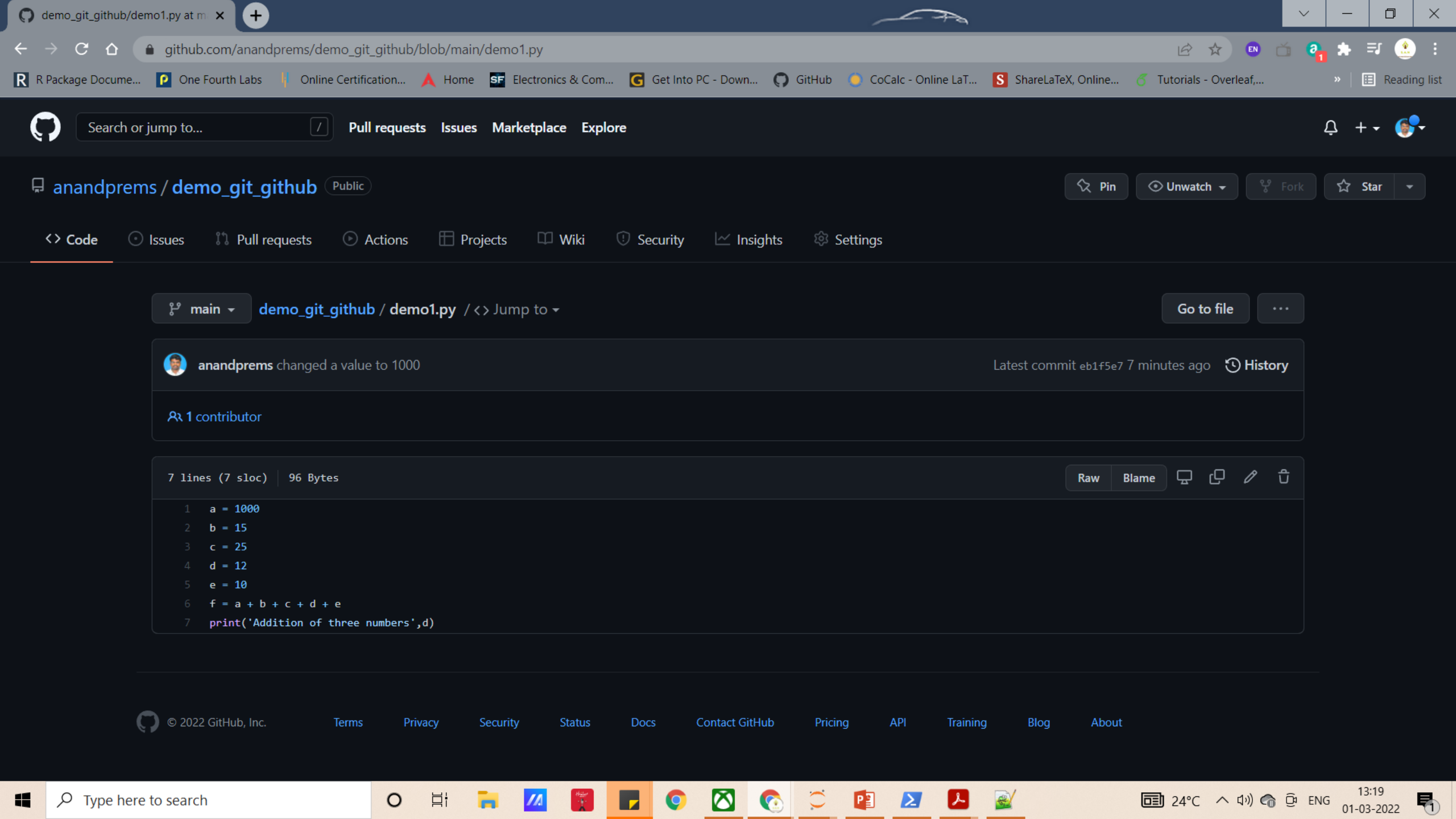
```
PS C:\Users\S.A.N\demo_git_github> git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 708 bytes | 88.00 KiB/s, done.
From 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 x
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)
8
Python file length : 100 lines : 8 Ln : 8 Col : 1 Pos : 101 Windows (CR LF) UTF-8 INS
Type here to search 24°C 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
PS C:\Users\S.A.N\demo_git_github>
```



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)
```

```
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>
```


Commits · anandprems/demo_git_github

github.com/anandprems/demo_git_github/commits/main

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anandprems / demo_git_githubPublic

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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

Verifiedeb1f5e7<>

a vlue changed to 100

anandprems committed 11 minutes ago

aea5f4f<>

changed variables and values

anandprems committed 22 minutes ago

Verified8c8f695<>

first commit

anandprems committed 4 hours ago

085f770<>

Newer

Older

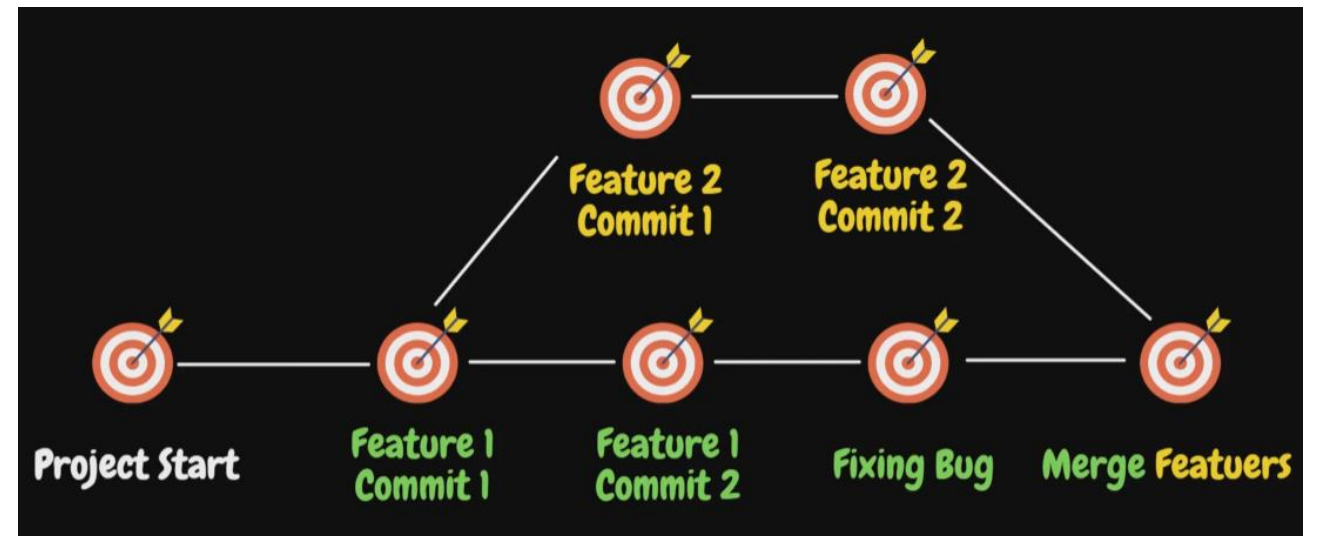
Type here to search

24°C13:2101-03-2022

Git reset

- `Git reset --hard <commit hash>`
- `Git reset --hard origin/master`

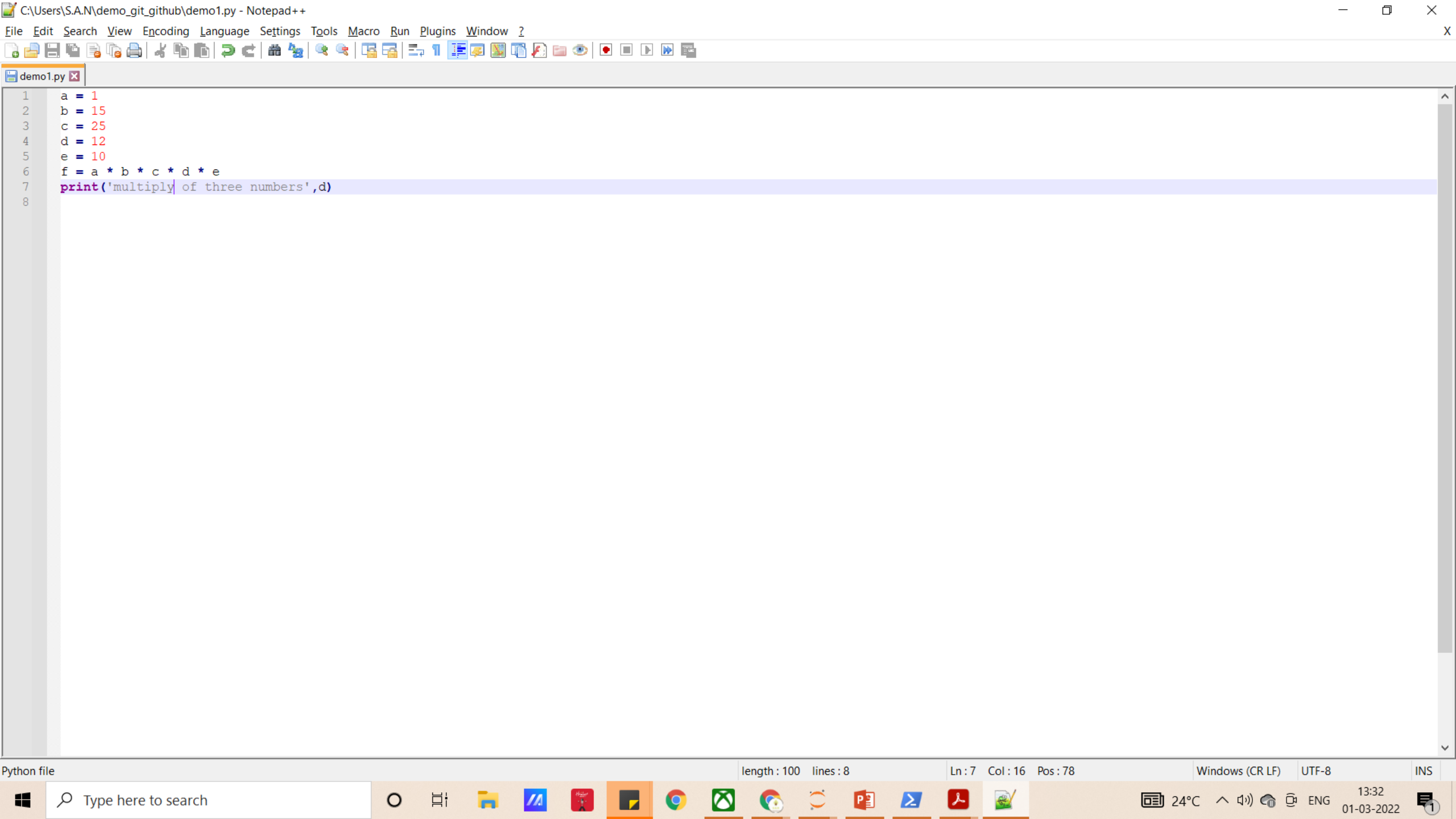
Branching



```
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
```



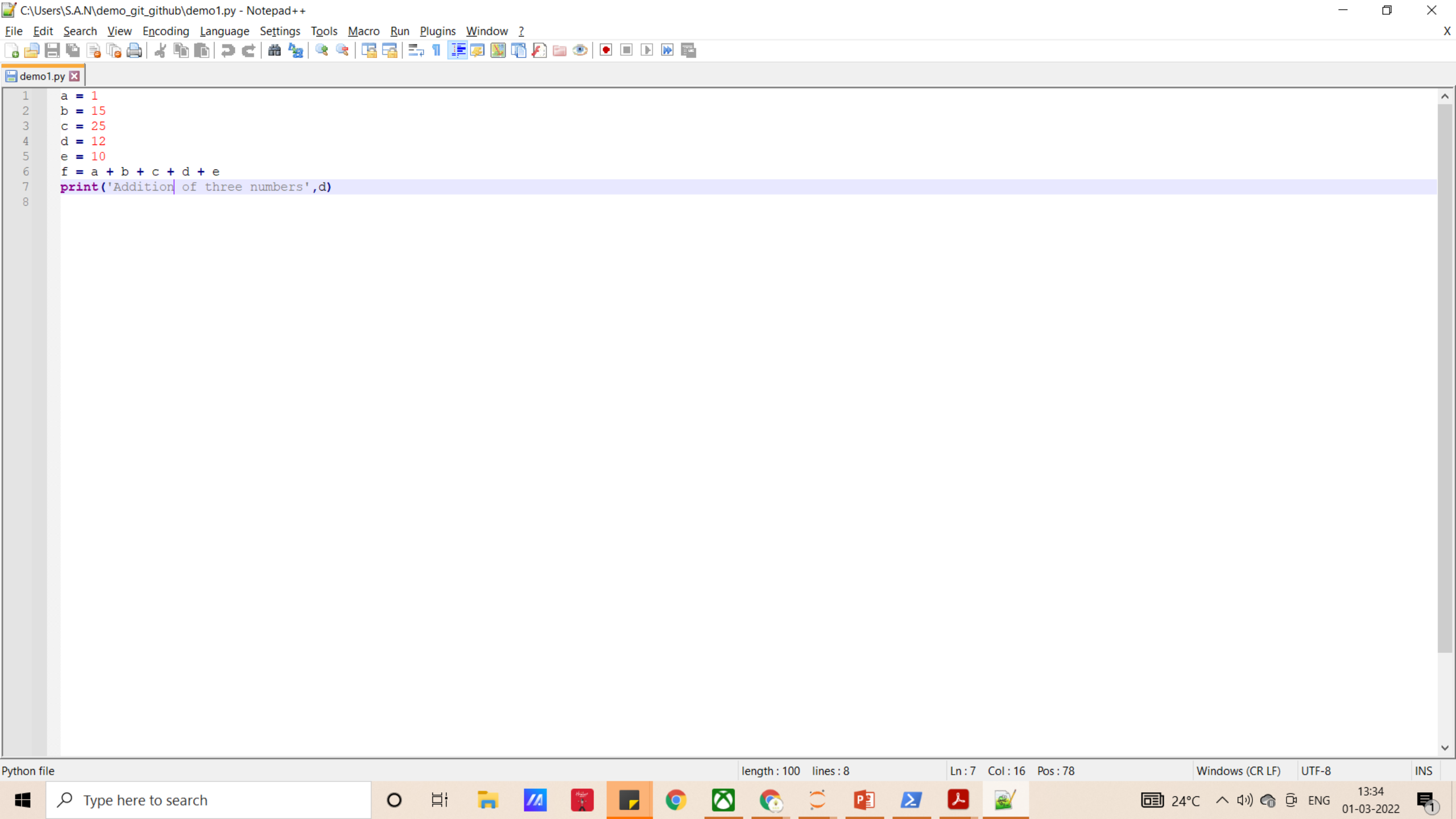
```
C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
demo1.py x
1 a = 1
2 b = 15
3 c = 25
4 d = 12
5 e = 10
6 f = a * b * c * d * e
7 print('multiply of three numbers',d)
8

Python file length : 100 lines : 8 Ln : 7 Col : 16 Pos : 78 Windows (CR LF) UTF-8 INS
Type here to search 24°C 13:32 01-03-2022 ENG
```



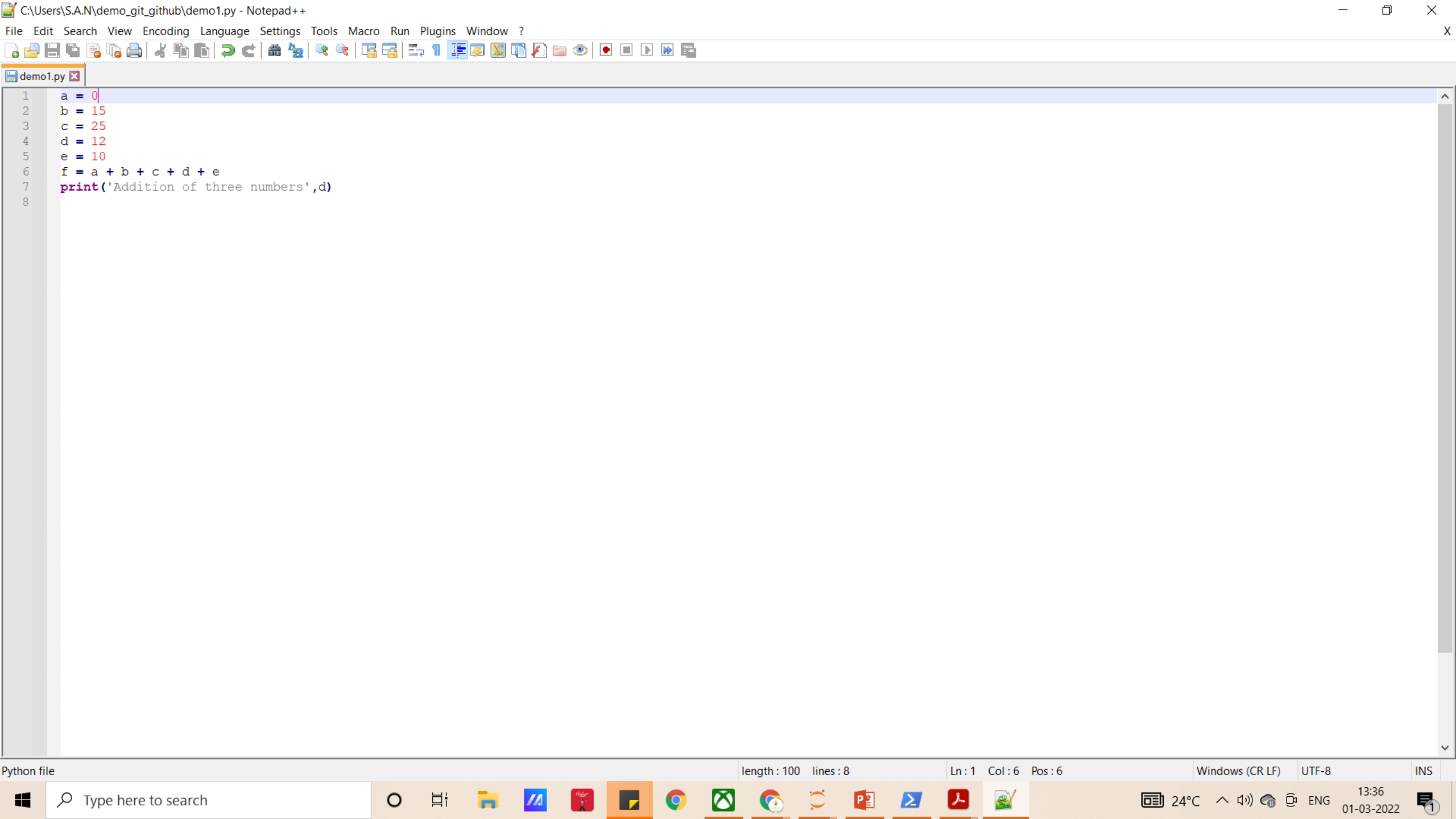
```
PS C:\Users\S.A.N\demo_git_github> git commit -am "for multiplication"
[spek eb59b6a] for multiplication
1 file changed, 2 insertions(+), 2 deletions(-)
PS C:\Users\S.A.N\demo_git_github> █
```

```
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>
```



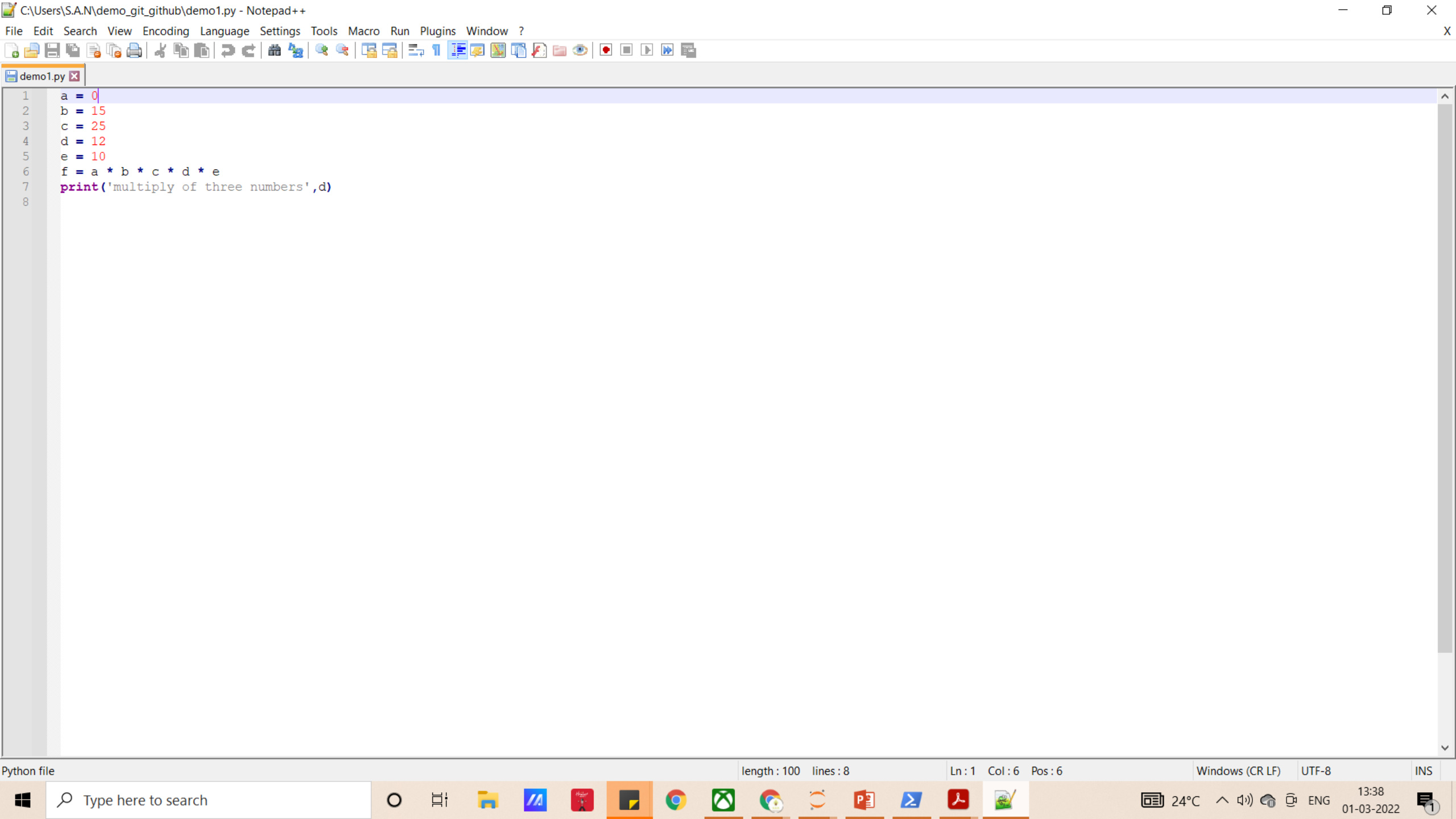
```
C:\Users\S.A.N\demo_git_github\demo1.py - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
demo1.py x
1 a = 1
2 b = 15
3 c = 25
4 d = 12
5 e = 10
6 f = a + b + c + d + e
7 print('Addition of three numbers',d)
8

Python file length : 100 lines : 8 Ln : 7 Col : 16 Pos : 78 Windows (CR LF) UTF-8 INS
Type here to search 24°C 13:34 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(-)
```



```
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> ■
```


How to change
from one folder or
directory to
another?

```
PS C:\Users\S.A.N\chumma> ls
PS C:\Users\S.A.N\chumma> Set-location -path "C:\Users"
PS C:\Users>
```