

AIDI-2004: Artificial Intelligence in Enterprise Systems

LAB1 SWATI PAL 100845961

Step1 :

I have downloaded and installed Git in my local machine

Step2:

<https://github.com/Swatipal786>

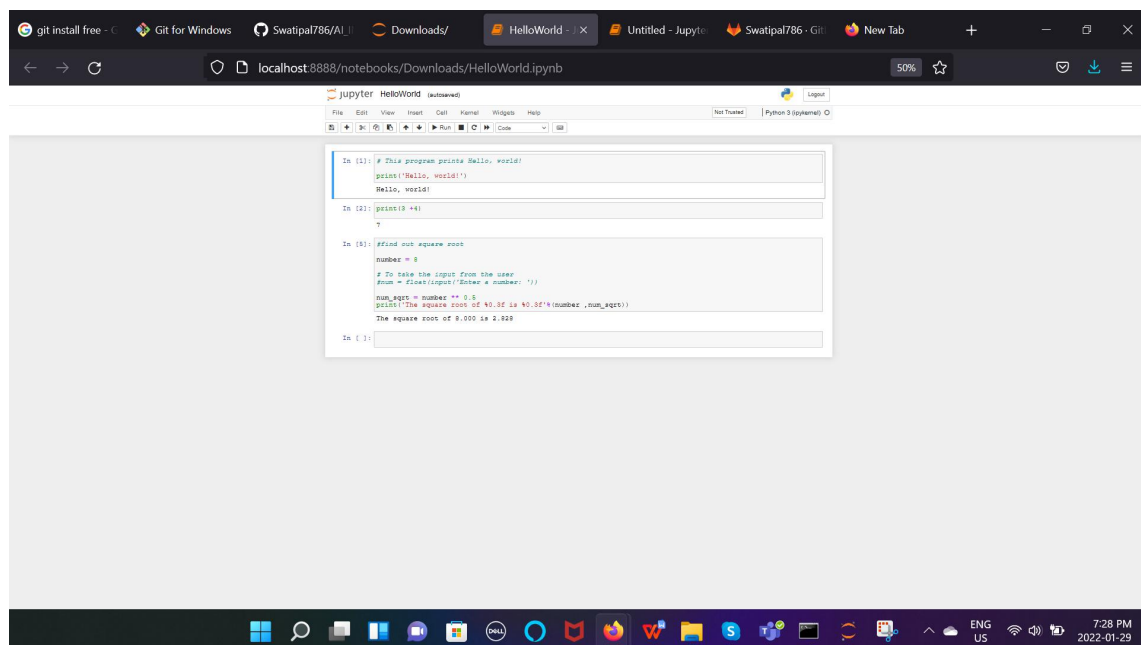
<https://gitlab.com/Swatipal786>

Step3:

I have tried to use both github and gitlab, but, I am going to choose github as it is more user friendly easily and controllable for streamline task.

Step 4:

I have written basic code in two version, first one is Hello World and then finding Square roots of numbers and I am going to commit both of them separately from command prompt.



```
In [1]: # This program prints Hello, world!
print('Hello, world!')
Hello, world!

In [2]: print('4')
4

In [3]: #find out square root
number = 8
# To take the input from the user
num = float(input('Enter a number: '))
num_sqrt = number ** 0.5
print('The square root of %.3f is %.3f'%(number,num_sqrt))
The square root of 8.000 is 2.828

In [ ]:
```

Step 5:

Connecting GIT with github and Commit Of HelloWorld.ipynb file.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22000.434]
(c) Microsoft Corporation. All rights reserved.

D:\Ai_sem2\AI_in_enterprise\LAB1>git init
Initialized empty Git repository in D:/Ai_sem2/AI_in_enterprise/LAB1/.git/

D:\Ai_sem2\AI_in_enterprise\LAB1>git add README.md
fatal: pathspec 'README.md' did not match any files

D:\Ai_sem2\AI_in_enterprise\LAB1>git add README.md

D:\Ai_sem2\AI_in_enterprise\LAB1>git status
On branch master

No commits yet

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

D:\Ai_sem2\AI_in_enterprise\LAB1>git config user.name

D:\Ai_sem2\AI_in_enterprise\LAB1>git config user.email

D:\Ai_sem2\AI_in_enterprise\LAB1>git config user.email "palswati143@gmail.com"

D:\Ai_sem2\AI_in_enterprise\LAB1>git config user.email
palswati143@gmail.com

D:\Ai_sem2\AI_in_enterprise\LAB1>git config user.name "Swati Pal"

D:\Ai_sem2\AI_in_enterprise\LAB1>git config user.name
Swati Pal

D:\Ai_sem2\AI_in_enterprise\LAB1>git commit -m "firstcommit"
master (root-commit) 9982757] firstcommit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md
```

```
C:\Windows\System32\cmd.exe
* [new branch]      main -> main

D:\Ai_sem2\AI_in_enterprise\LAB1>git push origin main
Everything up-to-date

D:\Ai_sem2\AI_in_enterprise\LAB1>git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        HelloWorld.ipynb

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

D:\Ai_sem2\AI_in_enterprise\LAB1>git add
warning: LF will be replaced by CRLF in HelloWorld.ipynb.
The file will have its original line endings in your working directory

D:\Ai_sem2\AI_in_enterprise\LAB1>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   HelloWorld.ipynb

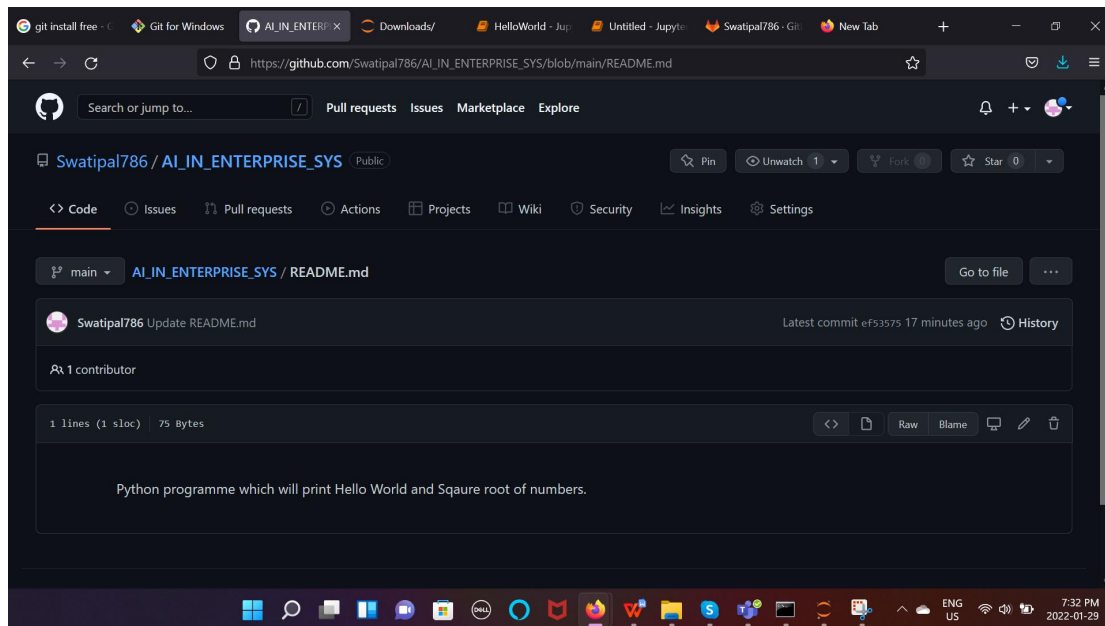
D:\Ai_sem2\AI_in_enterprise\LAB1>git commit -m "hellofirst"
[main 1a89ea3] hellofirst
1 file changed, 53 insertions(+)
create mode 100644 HelloWorld.ipynb

D:\Ai_sem2\AI_in_enterprise\LAB1>git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 675 bytes | 675.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/SwatiPal786/AI_IN_ENTERPRISE_SYS.git
   9982757..1a89ea3  main -> main

D:\Ai_sem2\AI_in_enterprise\LAB1>
```

Step 6:

Screenshot of README.md file.



Step 7:

Branch in repository.

```
C:\Windows\System32\cmd.exe
palswati14@gmail.com

D:\Ai_sem2\AI_in_enterprise\LAB1>git config user.name "Swati Pal"
D:\Ai_sem2\AI_in_enterprise\LAB1>git config user.name
Swati Pal
D:\Ai_sem2\AI_in_enterprise\LAB1>git commit -m "firstcommit"
[master (root-commit) 9982757] firstcommit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md
D:\Ai_sem2\AI_in_enterprise\LAB1>git remote add origin https://github.com/Swatipal786/AI_IN_ENTERPRISE_SYS.git
D:\Ai_sem2\AI_in_enterprise\LAB1>git branch -M main
D:\Ai_sem2\AI_in_enterprise\LAB1>git branch -M main
D:\Ai_sem2\AI_in_enterprise\LAB1>git remote add origin https://github.com/Swatipal786/AI_IN_ENTERPRISE_SYS.git
error: remote origin already exists.
D:\Ai_sem2\AI_in_enterprise\LAB1>git push origin main
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 214 bytes | 214.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Swatipal786/AI_IN_ENTERPRISE_SYS.git
 * [new branch]      main -> main
D:\Ai_sem2\AI_in_enterprise\LAB1>git push origin main
Everything up-to-date
D:\Ai_sem2\AI_in_enterprise\LAB1>git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        HelloWorld.ipynb

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

Step 8:

Newly added code into same file.

```
C:\Windows\System32\cmd.exe

D:\Ai_sem2\AI_in_enterprise\LAB1>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   HelloWorld.ipynb

D:\Ai_sem2\AI_in_enterprise\LAB1>git commit -m "hellofirst"
[main 1a89ea3] hellofirst
1 file changed, 53 insertions(+)
create mode 100644 HelloWorld.ipynb

D:\Ai_sem2\AI_in_enterprise\LAB1>git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 675 bytes | 675.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Swatipal786/AI_IN_ENTERPRISE_SYS.git
9982757..1a89ea3  main -> main

D:\Ai_sem2\AI_in_enterprise\LAB1>git status
On branch main
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:   HelloWorld.ipynb

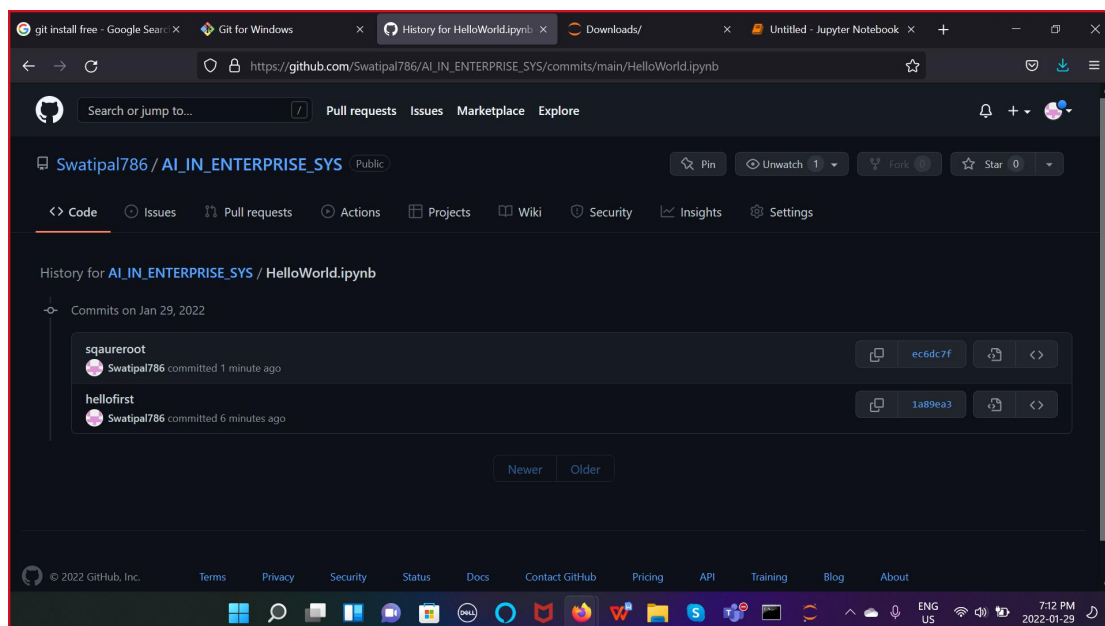
no changes added to commit (use "git add" and/or "git commit -a")

D:\Ai_sem2\AI_in_enterprise\LAB1>git add .
warning: LF will be replaced by CRLF in HelloWorld.ipynb.
The file will have its original line endings in your working directory

D:\Ai_sem2\AI_in_enterprise\LAB1>git commit -m "sqaureroot"
[main ec6dc7f] sqaureroot
1 file changed, 46 insertions(+), 2 deletions(-)
```

Step 9:

Showing history as number of commit in file.



Step 10:

Link of our activity

https://github.com/Swatipal786/AI_IN_ENTERPRISE_SYS

So, in above steps we have actually use github for maintaining and committing our different version of code in same file, we can see each series of changes in history, so afterwards, if is there any code error, then we can verify and correct the same. We have created python file and firstly, we have just printed HelloWorld and then we have added square root of numbers code in same file. We have

committed each code separately and checked history. In README.md we can specify path details, deployment details or code details. SO, in our README.md file we have mentioned about what our code prints.

We can use this steps while using Agile Technology in companies as in each increment we can add our code and in final we can deliver our output as whole. We can make each versions of our code and accordingly deploy them on server. For Example, in most of the IT companies people are using patchsets system, by which in each series of development of code patchset gets updated to new version and if there is any error in code then we can easily remove that version and check trial and error of our code. By using this method we have full control of our code and other person can also just follow our github path and easily understand flow of our code and deploy it, when required.