

Practical Experiment No. 3

Step 1

1. Create a random folder by using mkdir in the terminal [Here, **prac2dev**]
2. Save a java code (addition of 2 numbers) . I named the file as **Additionnew.java**

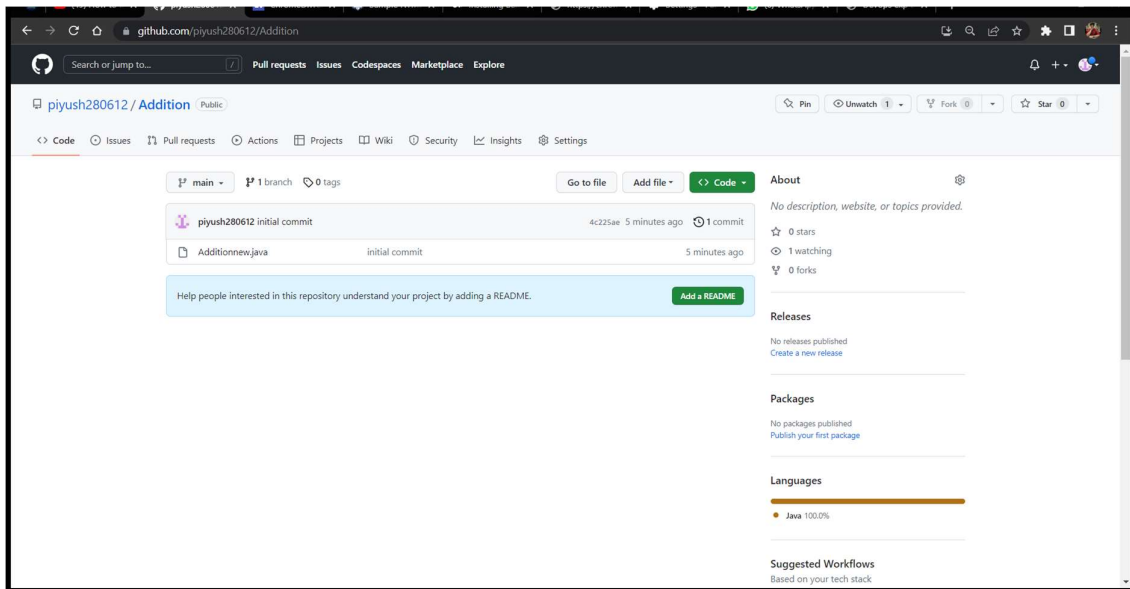
```
public class Addition {  
    public static void main(String[] args) {  
        int num1 = 5;  
        int num2 = 10;  
        int sum = num1 + num2;  
        System.out.println("The sum of " + num1 + " and " +  
            num2 + " is " + sum);  
    }  
}
```

3. Create a new GitHub repository [Say, Addition]

Step 2

1. Execute the following commands

```
MINGW64:/c:/Users/PIYUSH PAL/prac2dev  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~  
$ mkdir prac2dev  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~  
$ cd prac2dev  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev  
$ git init  
Initialized empty Git repository in C:/Users/PIYUSH PAL/prac2dev/.git/  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev (master)  
$ git add Additionnew.java  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev (master)  
$ git commit -m "initial commit"  
[master (root-commit) 4c225ae] initial commit  
1 file changed, 9 insertions(+)  
create mode 100644 Additionnew.java  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev (master)  
$ git remote add origin https://github.com/piyush280612/Addition.git  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev (master)  
$ git branch main  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev (master)  
$ git checkout main  
Switched to branch 'main'  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev (main)  
$ git add Additionnew.java  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev (main)  
$ git commit -m "initial commit"  
On branch main  
nothing to commit, working tree clean  
  
PIYUSH PAL@LAPTOP-JC4GNI7B MINGW64 ~/prac2dev (main)  
$ git push -u origin main  
Enumerating objects: 3, done.  
Counting objects: 100% (3/3), done.  
Delta compression using up to 8 threads  
Compressing objects: 100% (2/2), done.  
Writing objects: 100% (3/3), 361 bytes | 90.00 KiB/s, done.  
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
To https://github.com/piyush280612/Addition.git  
* [new branch] main -> main  
branch 'main' set up to track 'origin/main'.
```



Step 3

Now turn on the Jenkins

1. Click on **New item**. Name the item as **Addition** and select as **Freestyle project**
2. Under Source Code Management, Select **Git**, and enter the URL of your github repo.
3. Choose the appropriate branch.
4. In the Build Triggers section, click on build periodically.

In the script type: H/2 * * * *

5. In the build steps section, select Execute Windows Batch Command

In the script write,

javac Additionnew.java (as I have saved my local file by name Additionnew.java)

java Additionnew

5. Save Changes
6. Select on Build Now

localhost:8080/job/Addition/1/console

Jenkins

Search (CTRL+K)

Dashboard > Addition > #1 > Console Output

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#1'

Git Build Data

Console Output

Started by user Piyush Pal

Running as SYSTEM

Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\Addition

The recommended git tool is: NONE

No credentials specified

```
> git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\jenkins\workspace\Addition\.git # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/piyush280612/Addition.git # timeout=10
Fetching upstream changes from https://github.com/piyush280612/Addition.git
> git.exe --version # timeout=10
git version 2.28.0.windows.1
> git.exe fetch --tags --force --progress -- https://github.com/piyush280612/Addition.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision 4c225aee046b3580c20ae85d7853a23a196a0b35 (refs/remotes/origin/main)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 4c225aee046b3580c20ae85d7853a23a196a0b35 # timeout=10
Commit message: "initial commit"
First time build. Skipping changelog.
Finished: SUCCESS
```

34°C Partly sunny

Search

18:32 23-04-2023

localhost:8080/job/Addition/buildTimeTrend

Jenkins

Search (CTRL+K)

Dashboard > Addition > Build Time Trend

Status

Changes

Workspace

Build New

Configure

Delete Project

Rename

Build History

trend

Filter builds...

#1 Apr 23, 2023, 6:53 PM

#2 Apr 23, 2023, 6:51 PM

#3 Apr 23, 2023, 6:49 PM

#4 Apr 23, 2023, 6:50 PM

More build for all

More build for failures

Timeline

Apr 23 Apr 24 Apr 25 Apr 26 Apr 27

Addition #4

Addition #3

Addition #2

Addition #1

Build Time Trend

Build	Duration
#4	2.6 sec
#3	2.9 sec
#2	2.7 sec
#1	1.7 sec

18:32 23-04-2023