

1

Note-

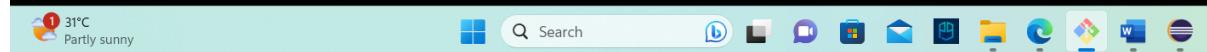
The project name in ide and the repo name need not match.

When we try to paste the name with space we need to include single quote-

```
karan@LAPTOP-H560VJTV MINGW64 /e  
$ cd 'Naveen Java Training'
```

Go to project location-

```
makesh ottawa Java Script Automation /  
karan@LAPTOP-H560VJTV MINGW64 /e  
$ cd 'Naveen Java Training'  
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training  
$ ls  
Cucumber/  
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training  
$ cd Cucumber/  
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber  
$ ls  
GitHubPractice/  
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber  
$ cd GitHubPractice/  
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice  
$ ls  
bin/ src/  
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice  
$
```



```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice  
$ ls -alt  
total 2  
drwxr-xr-x 1 karan 197121 0 Jul 24 16:20 bin/  
drwxr-xr-x 1 karan 197121 0 Jul 24 16:20 src/  
drwxr-xr-x 1 karan 197121 0 Jul 24 16:19 ./  
-rw-r--r-- 1 karan 197121 396 Jul 24 16:19 .classpath  
drwxr-xr-x 1 karan 197121 0 Jul 24 16:19 .settings/  
-rw-r--r-- 1 karan 197121 390 Jul 24 16:19 .project  
drwxr-xr-x 1 karan 197121 0 Jul 24 16:19 ../
```

Dir command-

Shows all directories in the path.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice  
$ dir  
bin src
```

Git init-

Git initialization. We need to register our local repo with ".git".

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice  
$ git init  
Initialized empty Git repository in E:/Naveen Java Training/Cucumber/GitHubPractice/.git/
```

By default master branch will be created after this command.

```

MINGW64:/e/Naveen Java Training/Cucumber/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice
$ git init
Initialized empty Git repository in E:/Naveen Java Training/Cucumber/GitHubPractice/.git/
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ ls -alt
total 6
drwxr-xr-x 1 karan 197121 0 Jul 24 16:30 .git/
drwxr-xr-x 1 karan 197121 0 Jul 24 16:30 ./
```

```

drwxr-xr-x 1 karan 197121 0 Jul 24 16:20 bin/
drwxr-xr-x 1 karan 197121 0 Jul 24 16:20 src/
-rw-r--r-- 1 karan 197121 396 Jul 24 16:19 .classpath
drwxr-xr-x 1 karan 197121 0 Jul 24 16:19 .settings/
-rw-r--r-- 1 karan 197121 390 Jul 24 16:19 .project
drwxr-xr-x 1 karan 197121 0 Jul 24 16:19 ../
```

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ cd .git/
```

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice/.git (GIT_DIR!)
$ ls
HEAD config description hooks/ info/ objects/ refs/
```

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice/.git (GIT_DIR!)
$ |
```

Open config and see what is there-

All configuration present here in form of key-value pair.

```

[core]
repositoryformatversion = 0
filemode = false
bare = false
logallrefupdates = true
symlinks = false
ignorecase = true

config [unix] (16:30 24/07/2023)
config [unix] 7L, 130B
```

To exit vi-

Press “escape :wq!”.

```

~
~
~
config [unix] (16:30 24/07/2023)
:wq!

1 94 / Aleja Zygm...
Construction

```

Go back to the project or one level-

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice/.git (GIT_DIR!)
$ cd ..

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |

```

Add remote connection between local folder and remote –

The screenshot shows a browser window with the URL <https://github.com/karanAtreya1986/GitHubCourse>. The page content includes instructions for creating a new repository on the command line:

```

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

echo "# GitHubCourse" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/karanAtreya1986/GitHubCourse.git
git push -u origin main

```

Below this, there are instructions for pushing an existing repository from the command line:

```

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

git remote add origin https://github.com/karanAtreya1986/GitHubCourse.git
git branch -M main
git push -u origin main

```

At the bottom, there is a terminal window showing the command line steps:

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git remote add origin https://github.com/karanAtreya1986/GitHubCourse.git
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ 

```

Now when we open config, we get the remote urls-

```

MINGW64/e/Naveen Java Training/Cucumber/GitHubPractice/.git
[core]
repositoryformatversion = 0
filemode = false
buflimit = false
logallrefupdates = true
symlinks = false
ignorecase = true
[remote "origin"]
url = https://github.com/karanAtreya1986/GitHubCourse.git
fetch = +refs/heads/*:refs/remotes/origin/*
[config "unix"]
config [unix] (18:52 24/07/2023)
"config" [unix] 10L, 252B
1,1 All
26°C Heavy Rain Search ENG IN 18:52 24-07-2023

```

Git status-

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git status
On branch master

No commits yet

Untracked files:
(use "git add <file>..." to include in what will be committed)
  .classpath
  .project
  .settings/
  bin/
  src/

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ 

```

Untracked files when moved to stage or index area are not deleted from working copy.

Even files in stage/index are untracked.

Similarly copy of files is created in local repo after commit. There is no deletion happening anywhere in working copy or stage or index or local repo. These become tracked files once they are committed.

Note-

We have to always move/push the src code, not hidden files or no dot files or no garbage files, no reports, no screenshots, no npm modules etc. we have to add these files into ".gitignore".

This is the complete list of all items in gitignore file-

Can make this as standard list which should always be ignored.

allure-results/ screenshots/

```

screenshot/
test-output/
build/

application.log
#####
## Java
#####
.mtj.tmp/
*.class
*.jar
*.war
*.ear
*.nar
hs_err_pid*
activityLog.log
#####
## Maven
#####
target/
pom.xml.tag
pom.xml.releaseBackup
pom.xml.versionsBackup
pom.xml.next
pom.xml.bak
release.properties
dependency-reduced-pom.xml
buildNumber.properties
.mvn/timing.properties
.mvn/wrapper/maven-wrapper.jar

#####
## IntelliJ
#####
out/
.idea/
.idea_modules/
*.iml
*.ipr
*.iws
#####
## Eclipse
#####
.settings/
bin/
tmp/
.metadata
.classpath
.project
*.tmp
*.bak
*.swp
*~.nib
local.properties
.loadpath
.factorypath

## OS X
#####
.DS_Store

```

So basically, only the code from src folder should be added and pushed into git. Rest all will go into git ignore.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git status
On branch master

No commits yet

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

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

We can see all the files are present in ".gitignore" and only wanted files from "src" are there. All the files inside ".gitignore" wont participate in git processes.

Tree-

Tree command is little different in windows. Type few characters like "tre" and then Tab and then we get the "tree.com".

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ tree.com
Folder PATH listing for volume Documents
Volume serial number is 5839-CA70
E:.
├── .settings
├── bin
│   ├── Pages
│   └── Tests
└── src
    ├── Pages
    └── Tests

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

This will show the folder level.

The below command will show the files and folders-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ tree.com //f
Folder PATH listing for volume Documents
Volume serial number is 5839-CA70
E:.
    .classpath
    .gitignore
    .project

    .settings
        org.eclipse.core.resources.prefs
        org.eclipse.jdt.core.prefs

    bin
        module-info.class

    Pages
        HomePage.class
        LoginPage.class

    Tests
        HomePageTest.class
        LoginPageTest.class

    src
        module-info.java

    Pages
        HomePage.java
        LoginPage.java

    Tests
        HomePageTest.java
        LoginPageTest.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

We are only concerned about “.java” files.

The below command is similar-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ tree.com //a
Folder PATH listing for volume Documents
Volume serial number is 5839-CA70
E:.
+---.settings
+---bin
|   +---Pages
|   \---Tests
\---src
    +---Pages
    \---Tests

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$
```

This is to show ascii lines but not needed for us.

Go to this website for solution on tree-

Google tree command not working in gitbash in windows X |  

Videos Images Books News Products Maps Flights Finance

About 279,000 results (0.61 seconds)

Did you mean: [tree command not working in git bash in windows](#)

 Superuser https://superuser.com › questions › how-to-add-the-tree... :

How to add the 'tree' command to git-bash in Windows?

Jan 9, 2013 — Launch cmd with '/c' argument and run tree, then terminate. /C Carries out the command specified by string and then terminates. (extra slash for ...)

11 answers · Top answer: You could also use "cmd //c tree" to use Windows' tree Explanation: ...

how do I use 'tree /F' command to git-bash on Windows? 1 answer May 23, 2017

How to get tree of folders in CMD? - Super User 4 answers Dec 29, 2011

Installing programs in git bash? - Super User 4 answers Apr 26, 2017

[How to add the 'tree' command to git-bash in Windows? - Super User](#)

This post-



There is a tree command in windows already — only problem is it is `tree.com` and git bash will not automatically add extension `.com` and execute it.

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However it will find it if you press `tab` after you type `tree` or `tre`



To see files you have to use `//f` — you have to use `//` or bash will think it is folder name



I also used `//a` to show ascii lines but you don't have to use it



Example:

```
dean@dean:~/java$ tree
bash: tree: command not found

dean@dean:~/java$ tree.com //a
Folder PATH listing for volume c
Volume serial number is 4E70-B37A
C:.
+---atom
+---sublime
\---vscode

dean@dean:~/java$ tree.com //a //f
Folder PATH listing for volume c
Volume serial number is 4E70-B37A
C:.
+---atom
|   test1
```

```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git add .

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
  new file:  .gitignore
  new file:  src/Pages/HomePage.java
  new file:  src/Pages/LoginPage.java
  new file:  src/Tests/HomePageTest.java
  new file:  src/Tests/LoginPageTest.java
  new file:  src/module-info.java

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

I deleted the module-info manually and again did git add to keep it updated. This is not mandatory step, you can delete the file, do git status, it will show file removed in untracked area, then we can just commit to local repo and do git status.

```
Changes not staged for commit:
(use "git add/rm <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
  deleted:  src/module-info.java

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git add .

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
  new file:  .gitignore
  new file:  src/Pages/HomePage.java
  new file:  src/Pages/LoginPage.java
  new file:  src/Tests/HomePageTest.java
  new file:  src/Tests/LoginPageTest.java

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$
```

All yellow highlighted are important ones-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git commit -m "first commit"
[master (root-commit) 9fe238f] first commit
 5 files changed, 96 insertions(+)
create mode 100644 .gitignore
create mode 100644 src/Pages/HomePage.java
create mode 100644 src/Pages/LoginPage.java
create mode 100644 src/Tests/HomePageTest.java
create mode 100644 src/Tests/LoginPageTest.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

Commit id to master branch.

How many files changed.

How many insertions done into file.

Random memory or index allocated to different files.

Once all committed then the branch is clean-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git status
On branch master
nothing to commit, working tree clean

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

Git branch-

To see how many branches are there.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ git branch
* master

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/Cucumber/GitHubPractice (master)
$ |
```

Git push-

By default the first code we write is always on local master branch in local repo. First push will always be from local master to remote master.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/cucumber/GitHubPractice (master)
$ git push origin master
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 12 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (10/10), 1.16 KiB | 395.00 KiB/s, done.
Total 10 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/karanAtreya1986/GitHubCourse.git
 * [new branch]      master -> master

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen Java Training/cucumber/GitHubPractice (master)
$ |
```

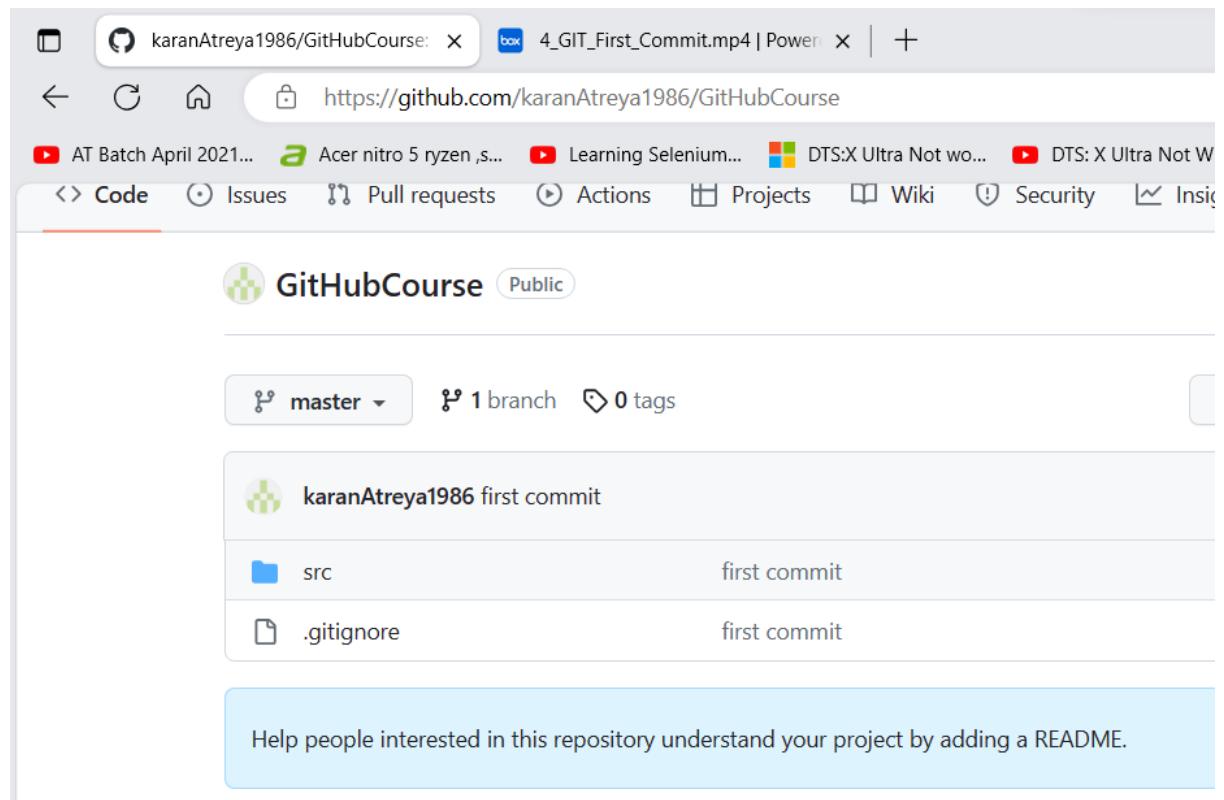
Compression done.

We have pushed our code from local master to remote master.

url for remote git is also present.

We are pushing code into the origin (origin also known as remote side) to a branch called master.

Code pushed-



Play around.

GitHubCourse/src/Tests at master | 4_GIT_First_Commit.mp4 | Power | +

<https://github.com/karanAtreya1986/GitHubCourse/tree/master/src/Tests>

AT Batch April 2021... Acer nitro 5 ryzen s... Learning Selenium... DTS:X Ultra Not wo... DTS: X Ultra Not W... smart pen writers f... Toronto Ti

karanAtreya1986 / GitHubCourse

Type ⌥ to search

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Code

master

Go to file

src

Pages

HomePage.java

LoginPage.java

Tests

HomePageTest.java

LoginPageTest.java

HomePageTest.java

GitHubCourse / src / Tests /

karanAtreya1986 first commit

Name	Last commit message
..	
HomePageTest.java	first commit
LoginPageTest.java	first commit

Number of branches can be found from the drop down-

Code

master

Find or create a branch...

Branches Tags

✓ master default

View all branches

..

HomePage.java

LoginPage.java

Commit reason which we wrote-

Name	Last commit message
...	
HomePageTest.java	first commit
LoginPageTest.java	first commit

Click on commit link-

The screenshot shows a GitHub repository named "GitHubCourse" owned by "karanAtreya1986". The repository has 1 branch and 0 tags. The master branch contains 1 commit. The commit was made by "karanAtreya1986" 16 minutes ago with the message "first commit". The commit details show two files: "src" and ".gitignore", both committed 16 minutes ago. A yellow arrow points to the link for the "src" file.

Click first commit.

The screenshot shows a GitHub repository page for 'karanAtreya1986 / GitHubCourse'. The 'Code' tab is selected. Below it, the 'Commits' section is displayed. A button for the 'master' branch is shown. Underneath, a commit is listed: 'first commit' by karanAtreya1986, committed 16 minutes ago on Jul 25, 2023.

You can see the changes made.

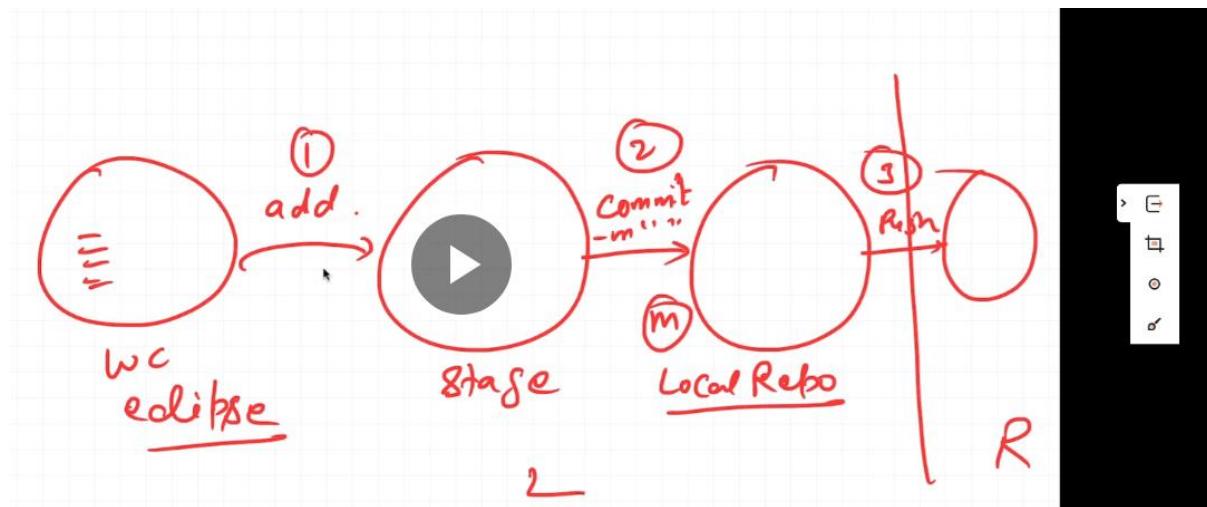
The screenshot shows a GitHub commit page for the 'first commit' on Jul 25, 2023. The commit message is 'first commit' by karanAtreya1986. The diff view shows changes in the '.gitignore' file. The changes are as follows:

```

diff --git .gitignore .gitignore
--- /dev/null
+++ b/.gitignore
@@ -0,0 +1,63 @@
1 + allure-results/
2 + screenshots/
3 + screenshot/
4 + test-output/
5 + build/
6 +
7 + application.log
8 + ****
9 + ## Java
10 + ****
11 + .mtj.tmp/
12 + *.class
13 + *.jar
14 + *.war
15 + *.ear
16 + *.nar
17 + hs_err_pid*
18 + activitylog.log
19 + ****
20 + ## Maven
21 + ****
22 + target/
23 + pom.xml.tag
24 + pom.xml.releaseBackup
25 + pom.xml.versionsBackup
26 + pom.xml.next
27 + pom.xml.bak

```

Just remember this steps and stages-

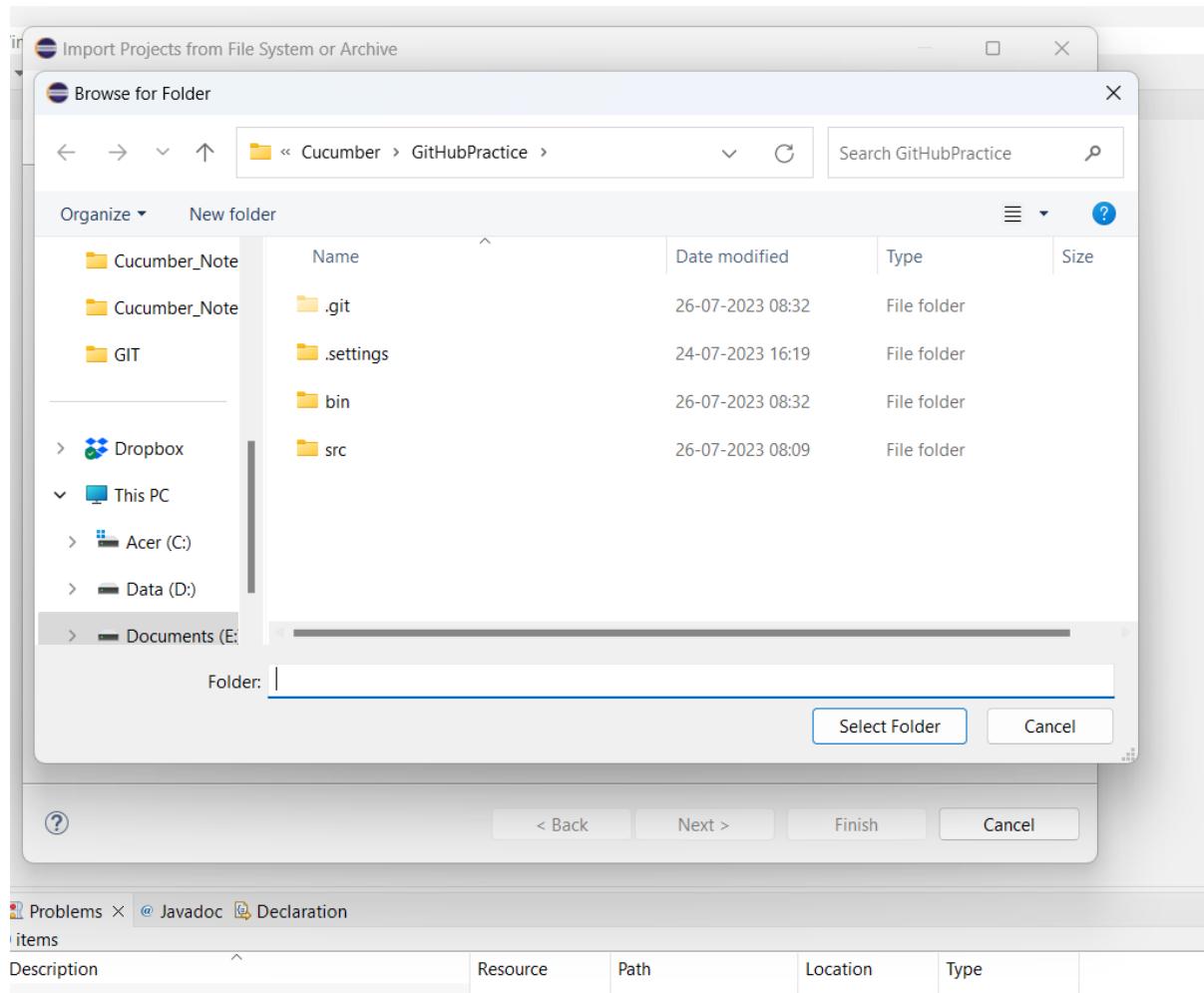


Wc means working copy of the code or the code which we write. Here we use IDE's to write the code.

By default master branch is created and pushed the first time.

To know upto which level we need to select the project-

File -> open projects from file system -> directory -> select the directory upto the first level as seen below (it should be one level above the src folder).



Eclipse workspace-

Here we need to give path till the folder under which the project has to be created.

