**Prerequisite for Selenium and github Integration**

Before we start selenium and git hub integration, we need to install the following components

1. Jenkins Installation.
2. Maven Installation.

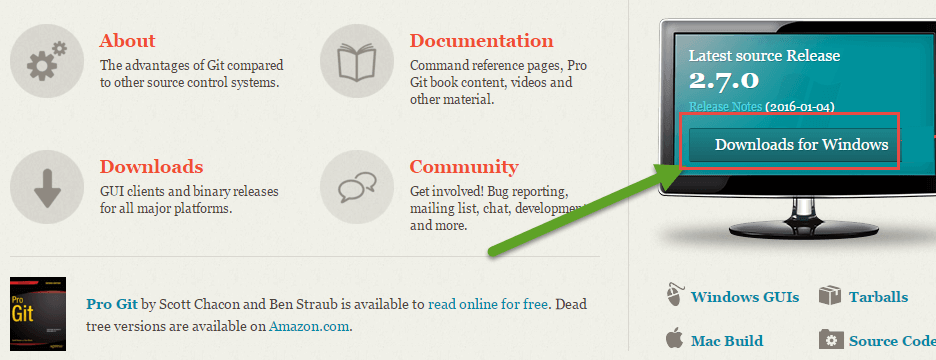
**Git Binaries Installation**

Now let us start by installing "Git Binaries".

**Step 1)** Launch the Browser and navigate to URL- https://git-scm.com/

**Step 2)** Download the latest stable release.

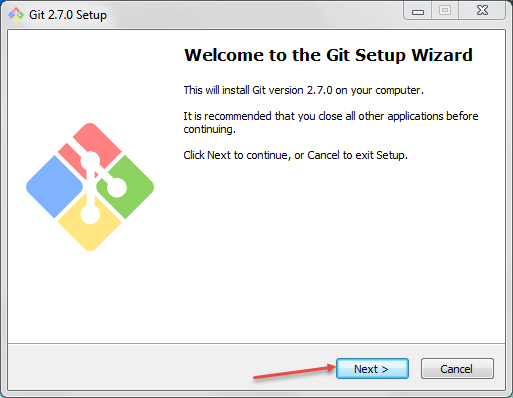
**Step 3)** Click on downloads for windows once the file is downloaded we can begin with our installation.



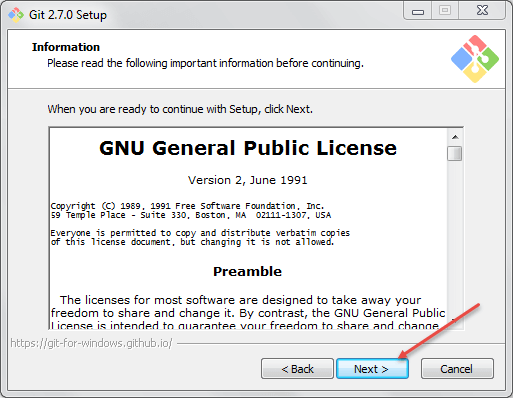
**Step 4)** Go to the download location or icon and run the installer.

**Step 5)** Click through welcome and General Public license.

**Step 6)** Click on "next" button in git setup wizard



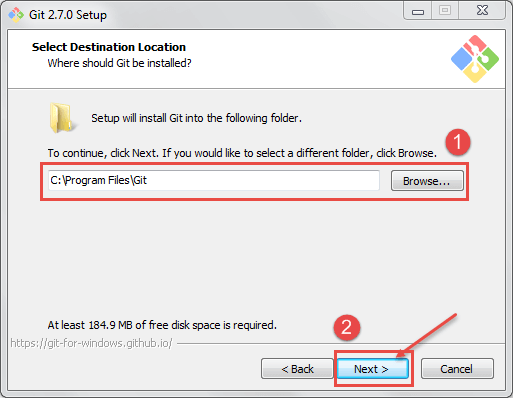
**Step 7)**Read the GNU General Public License and click on next



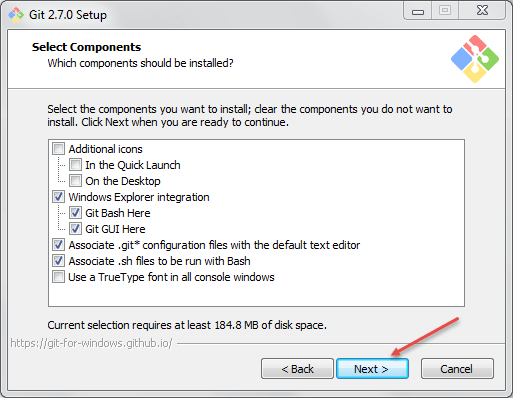
Another window will pop up,

**Step 8)** In this step,

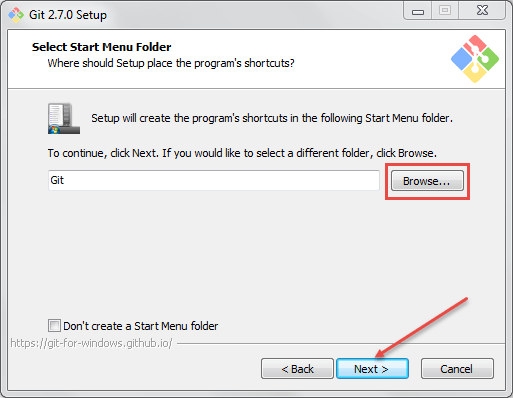
1. Select the Directory where you want to install "Git Binaries" and
2. Click on next button



**Step 9)** Select the component which you want to install and click on next

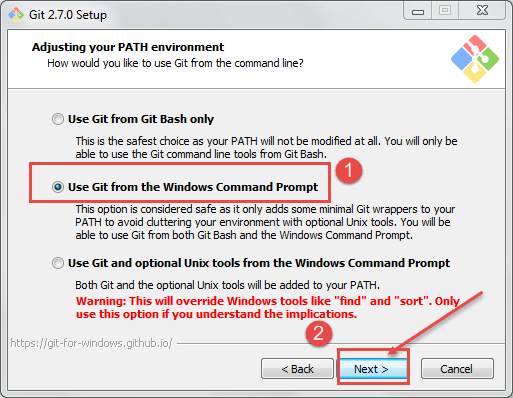


**Step 10)** If you want to create a start menu folder for Git, leave the setting default and click on next.



**Step 11)** In this step,

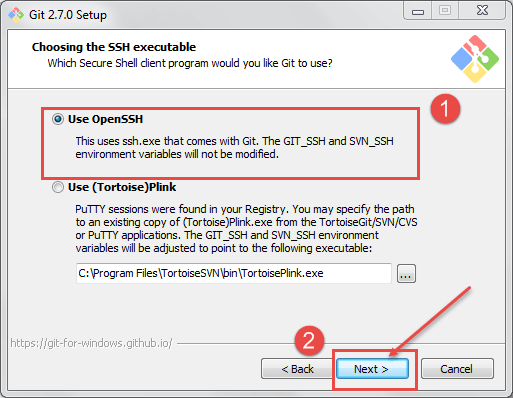
1. Select Use Git from the Windows Command Prompt to run Git from the command line and
2. Click on next.



Leave the default setting and click on next to install.

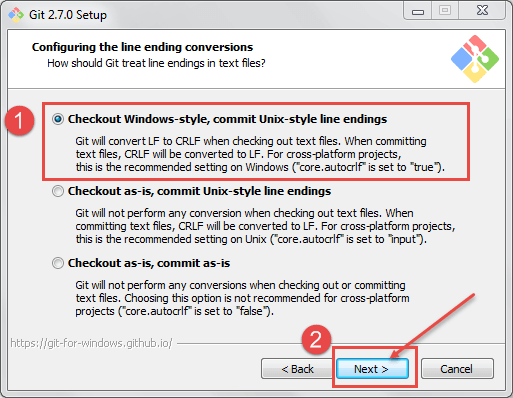
**Step 12)**In this step,

1. Select Use Open SSH It will help us to execute the command from the command line, and it will set the environmental path.
2. Click on next button.



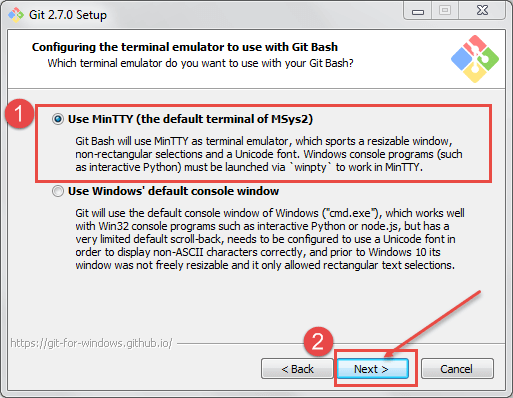
**Step 13)**In this step,

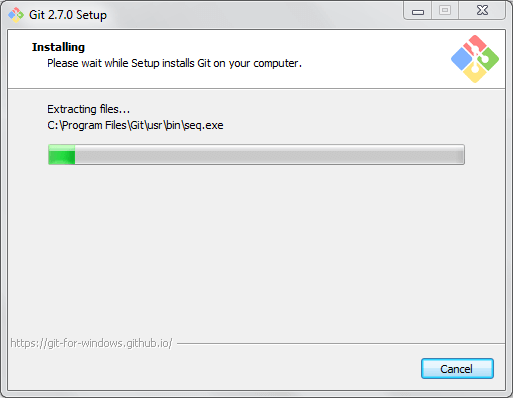
1. Select "Checkout windows-style, commit Unix-style line ending".(how the git hub should treat line endings in text files).
2. Click on next button.



**Step 14)**In this step,

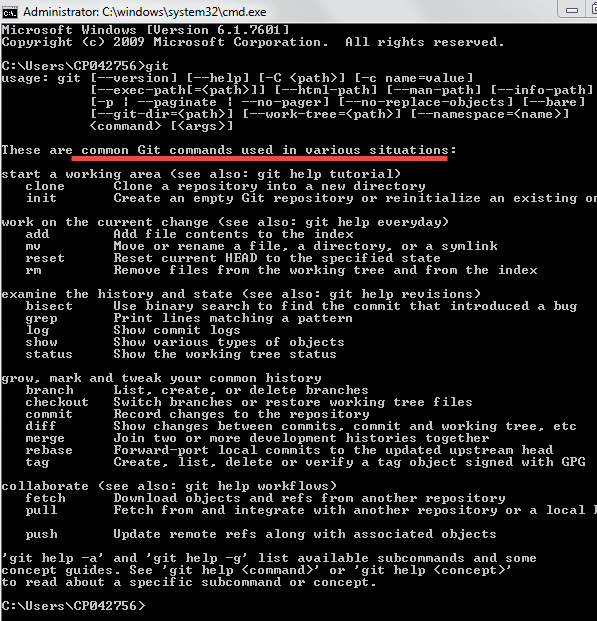
1. Select Use MinTTY is the default terminal of MSys2 for Git Bash
2. Click on next button





Once git is installed successfully, you can access the git.

Open Command prompt and type "git" and hit "Enter" If you see below screen means it is installed successfully

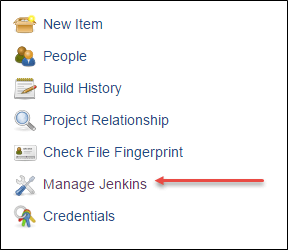


**Jenkins Git Plugin Install**

Now let's start with Jenkins Git Plugin Installation.

**Step 1)** Launch the Browser and navigate to your Jenkins.

**Step 2)** Click on Manage Jenkins.



**Step 3)** Click on Manage Plugins, it will open another window

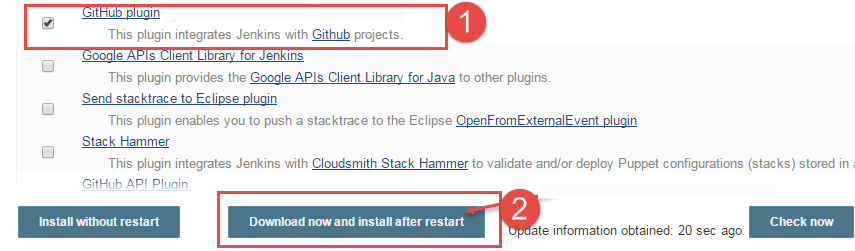
Upload Selenium Script to GitHub

**Step 4)** Click on Available TAB

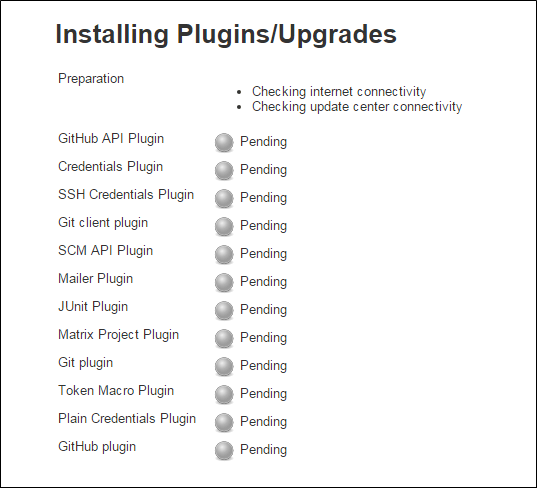
Upload Selenium Script to GitHub

**Step 5)** In this step,

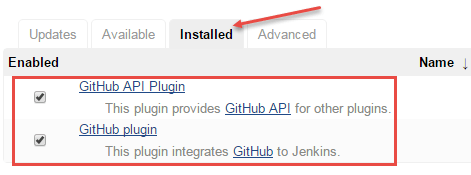
1. Select GitHub plugin then
2. Click on Download now and install after restart button.



Now it will install the following plugins.



we can see plugins are installed in the "Installed" TAB.



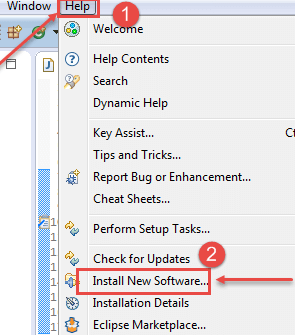
**Setting Up our Eclipse with GitHub Plugin**

Now let's install GitHub Plugin for Eclipse.

URI for EGit Plugin location https://download.eclipse.org/egit/updates/

**Step 1)** Launch Eclipse and then

1. Click on help button then
2. Click on install new software

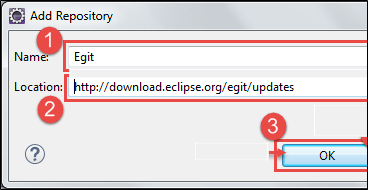


**Step 2)** The below screen will open once we click on the install new software. Now click on add

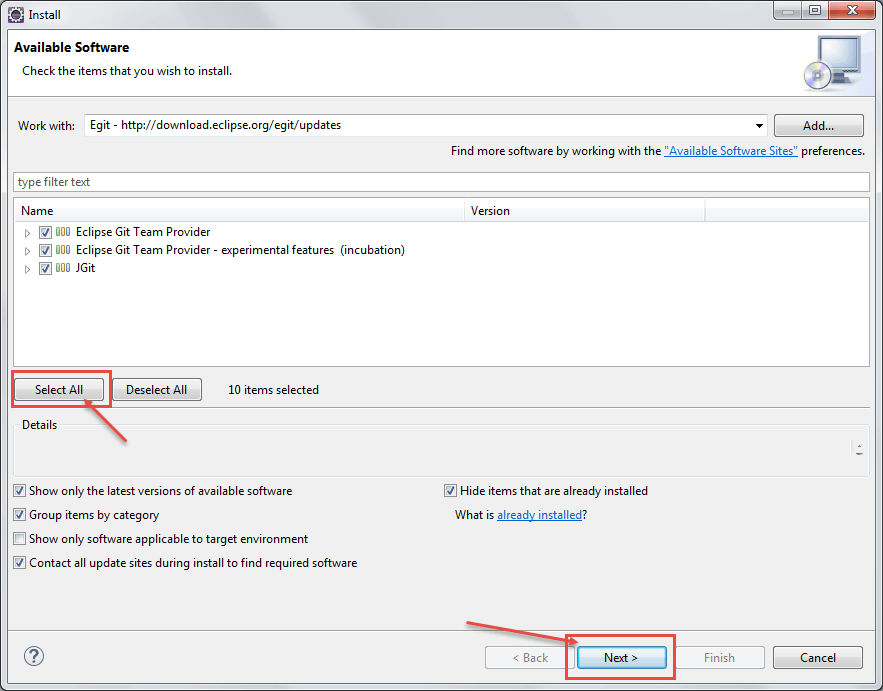
Upload Selenium Script to GitHub

**Step 3)** In this step,

1. Type the name "EGIT" and
2. Enter the location https://download.eclipse.org/egit/updates/ then
3. Click on ok.

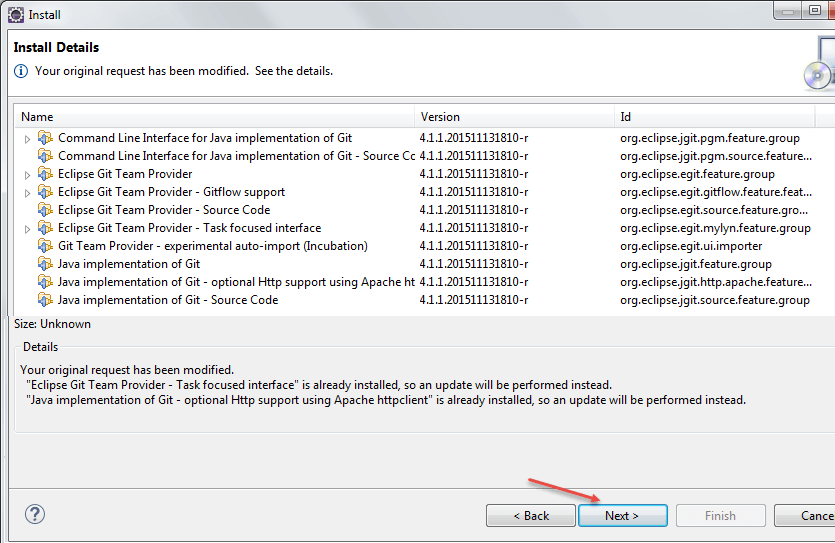


**Step 4)** Then click on select all and next

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit22.png)

**Step 5)** Click on next and click accept the license agreement then finish the installation.

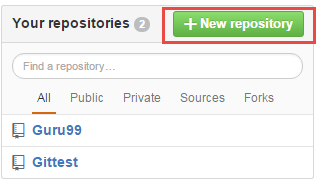
Then restart the eclipse.

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit23.png)

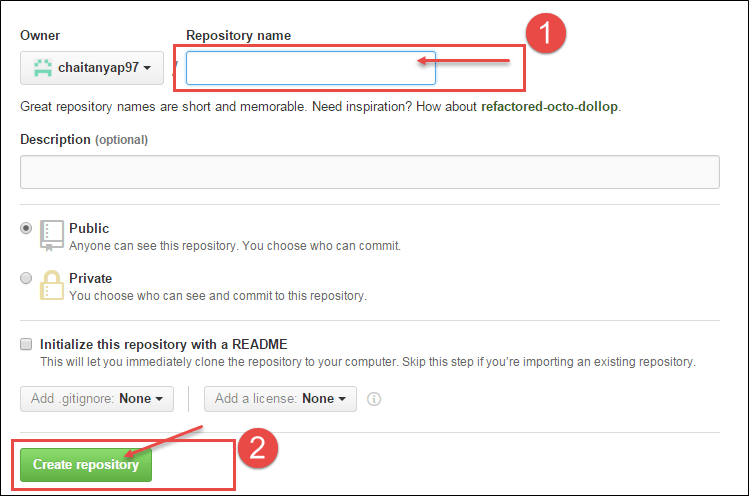
**Building a repository on Git**

**Step 1)** Navigate to Git Hub URI: https://github.com/ sign up for git hub

**Step 2)** Once you have been successfully signed up then click on create new repository

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit24.png)

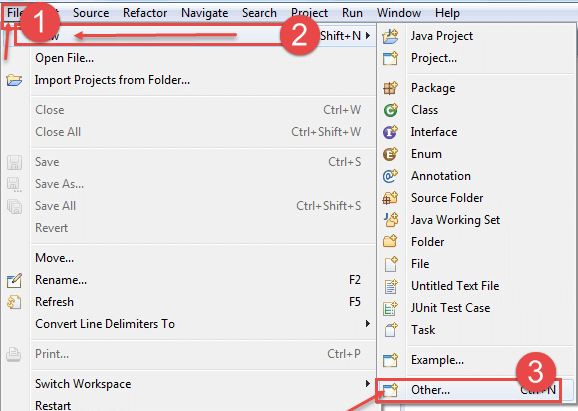
**Step 3)** In this step,

1. Enter the name of the repository and
2. click on create repository

**Testing Example Of Using Selenium with Git Hub.**

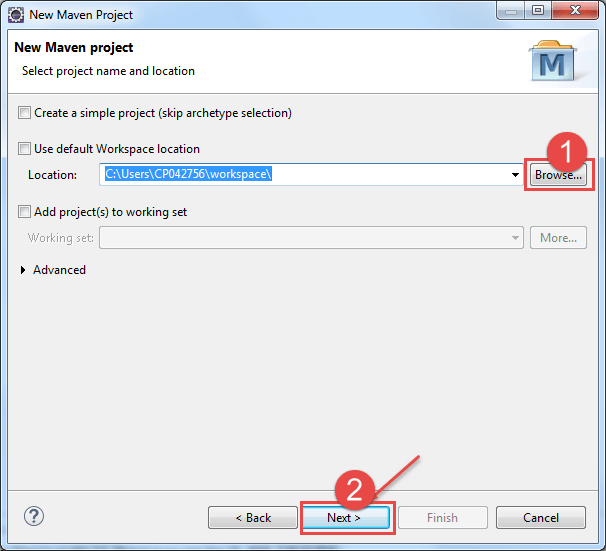
**Step 1)** Once we are done with the new repository, Launch Eclipse

1. Click on file
2. Then click on new button and then
3. Click on other

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit26.png)

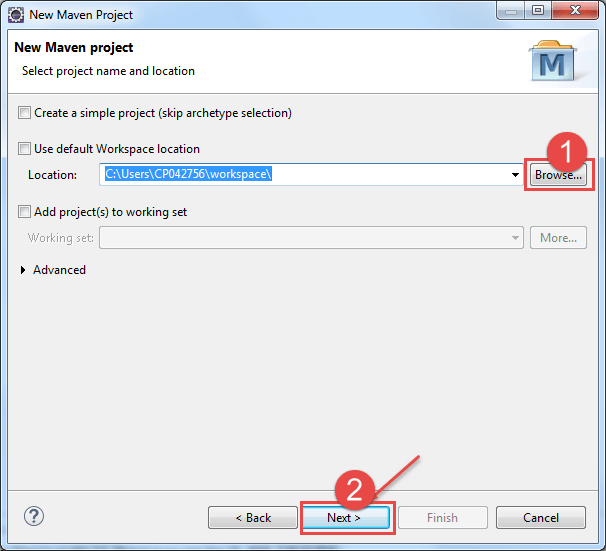
**Step 2)** In this step,

1. Select Maven Project and browse the location.
2. Click on next

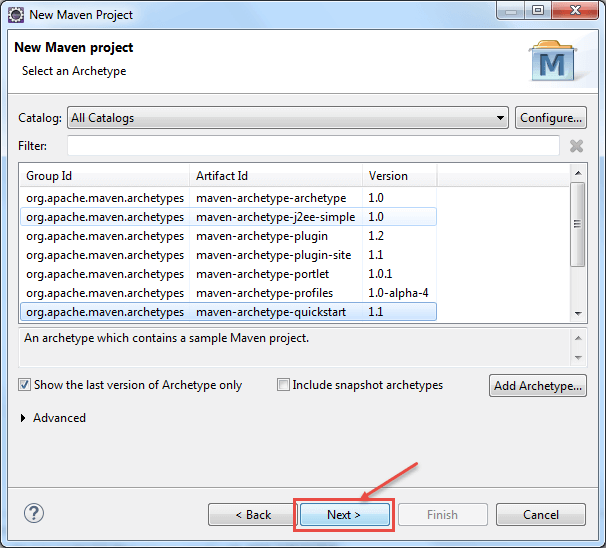


**Step 3)** In this step,

1. Select project name and location then
2. Click on next

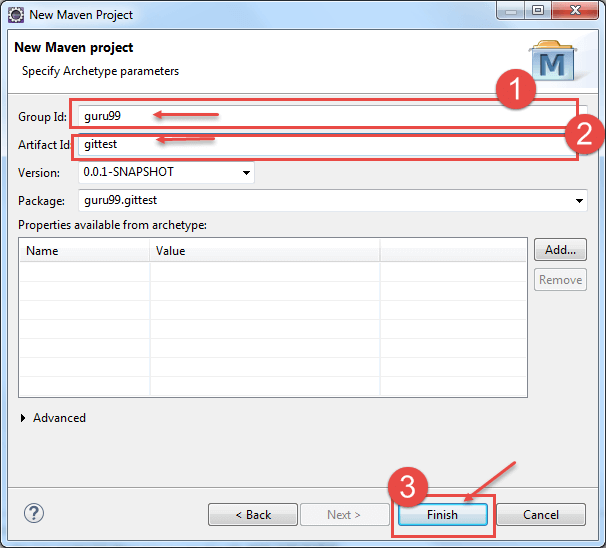
[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit28.png)

**Step 4)** Click on next

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit29.png)

**Step 5)** In this step,

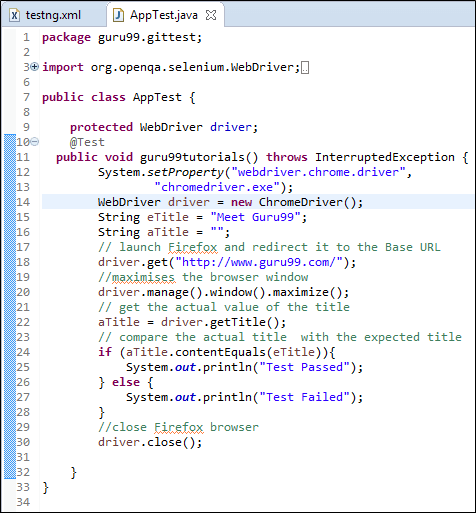
1. Enter Group Id and
2. Artifact Id and
3. Click on Finish button.

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit30.png)

As soon as you click on finish button, a project will be created.

**Step 6)**

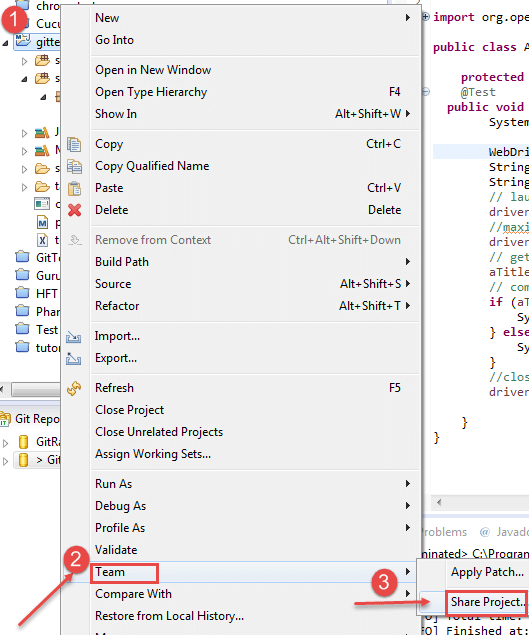
Now let's create a sample script

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit31.png)

Let's push the code/local repository to Git Hub.

**Step 7)** In this step,

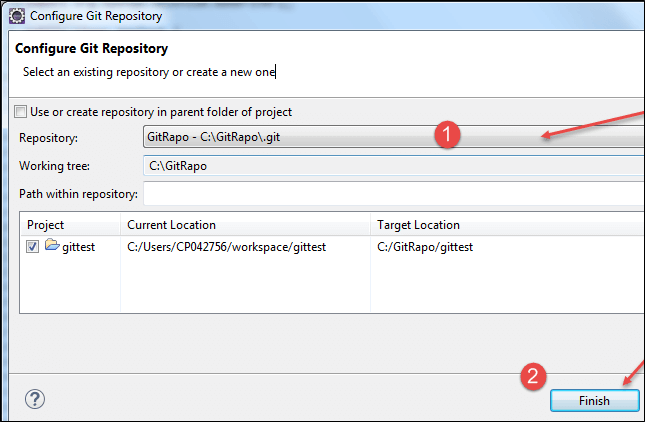
1. Open eclipse and then navigate to the project
2. Right-click on the project and Select "team" then
3. Select share project

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit32.png)

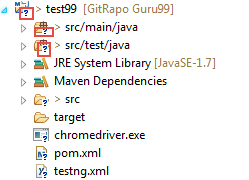
**Step 8)** Once we click on the "Share Project" in above screen, we will get another window

In this step,

1. Select the local repository and
2. Click on finish.

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit33.png)

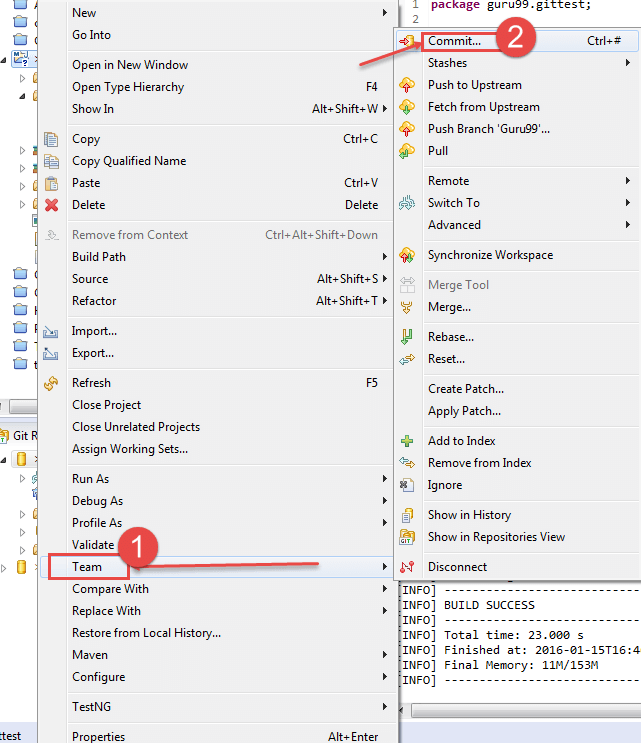
Once we click on Finish, we can see the change in the project structure that we have created a local repository.

[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit34.png)

Now it's time to push our code to Git Hub Repository

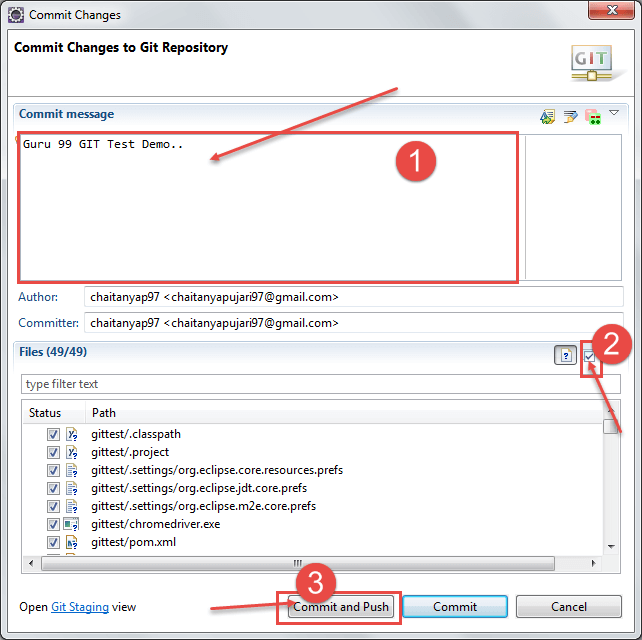
**Step 9)** In this step,

1. Right-click on the project and team then
2. Click on commit

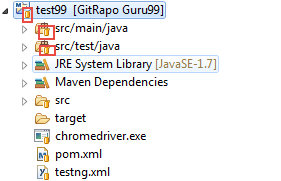


**Step 10)** In this step,

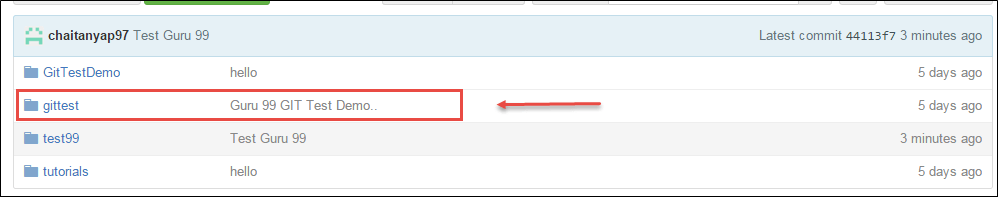
1. Enter a commit message and
2. Select the files which we want to send to Git Hub repository
3. Click on commit and push



Once you are done with it, you could see the icons in the project is being changed it says that we have successfully pushed and committed our code to Git Hub



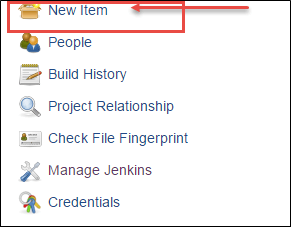
We can verify in the Git hub in the repository that our project is successfully pushed into repository



Now it's time for executing our project from Git Hub in Jenkins

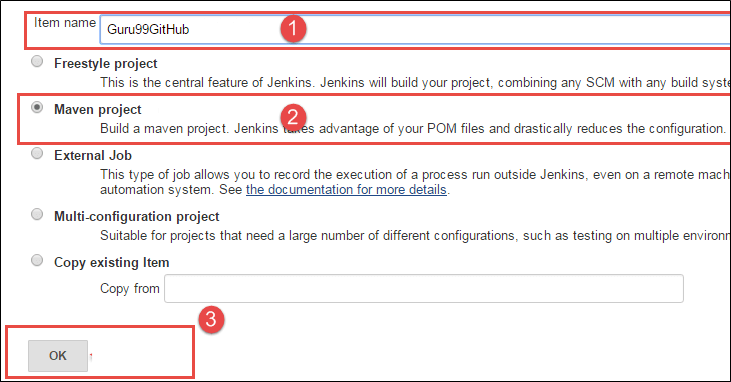
**Step 11)** Launch browser and open your Jenkins.

**Step 12)** Click on new Item.



**Step 13)** In this step,

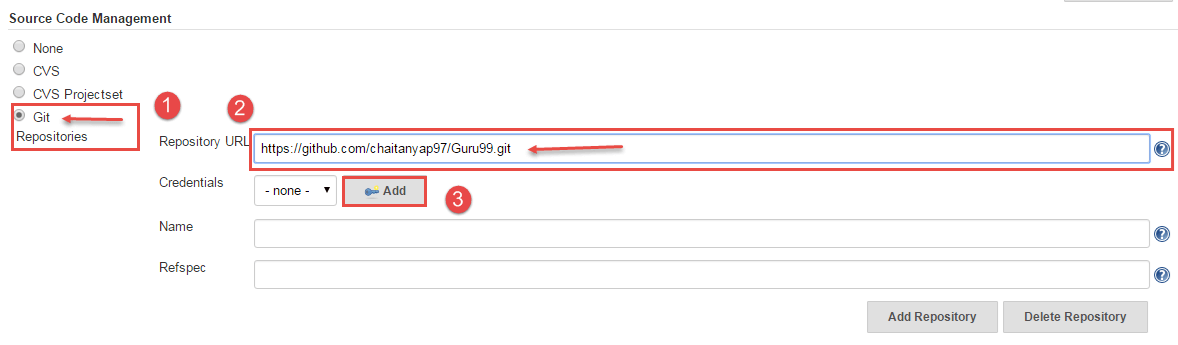
1. Enter Item name
2. Select Maven Project
3. Click on ok button



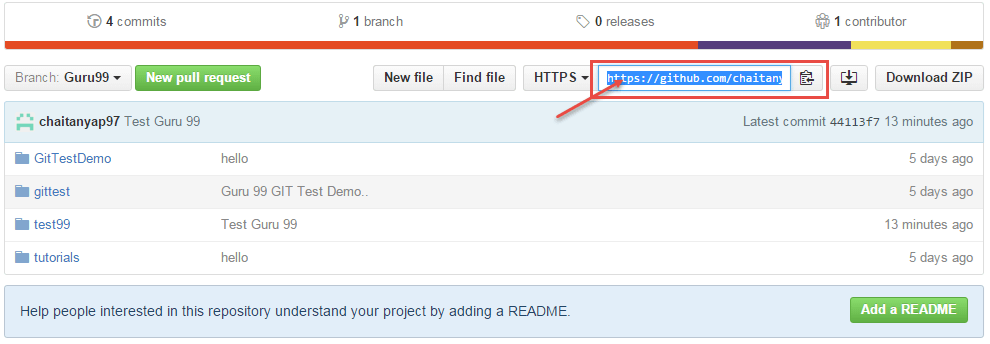
**Step 14)** In this step, we will configure Git Hub in Jenkins

1. Click on Git and
2. Enter the Repository URI
3. Click on Add repository

If you have multiple repositories in Git Hub, you need to add name Refspec field of the repository.

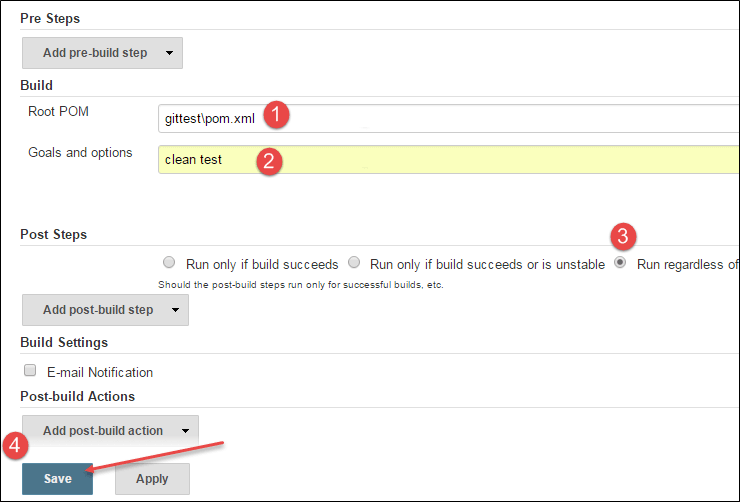
[](https://www.guru99.com/images/cassandra/021216_0757_Seleniumwit41.png)

We can get the URI in Git Hub



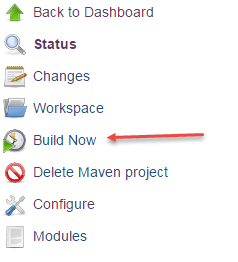
**Step 15)** In this step,

1. Add the pom.xml file location in the textbox and (verify pom.xml location in-case of error)
2. Specify the goals and options for Maven then
3. Select option on how to run the test
4. Click on save button.

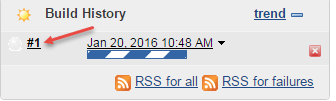


**Step 16)** once we click on save below screen will appear,

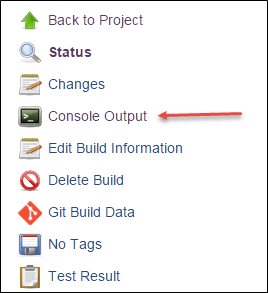
Now we can build our project click on build.



**Step 17)** It will show the Build, click on build Number or the build date.



**Step 18)**once we click on build number below screen will appear where we can see the console output in this step, click on the console output.



Finally, we can verify that our build is successfully completed/executed.

