

# Activity 1

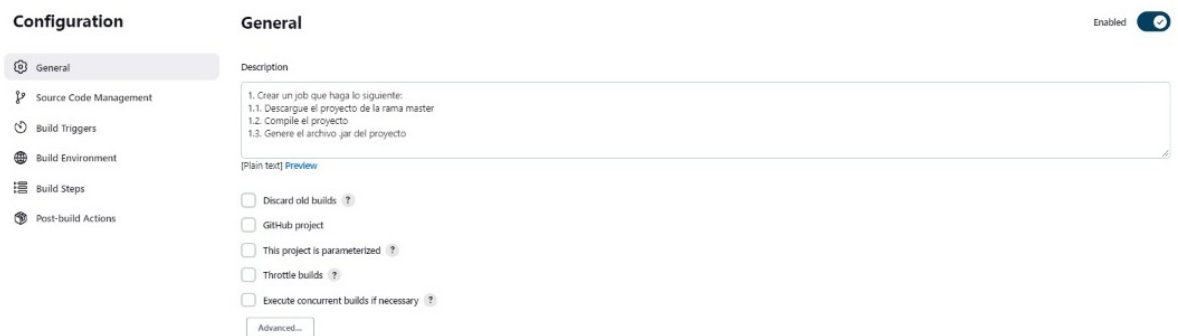
**cd src** => The system is going to be located in the (SRC) field.

**javac calculator.java** => Establishing the files.JAVA that we want to convert to .CLASS

**fsutil file createnew Manifest.txt 0** => Create manifest

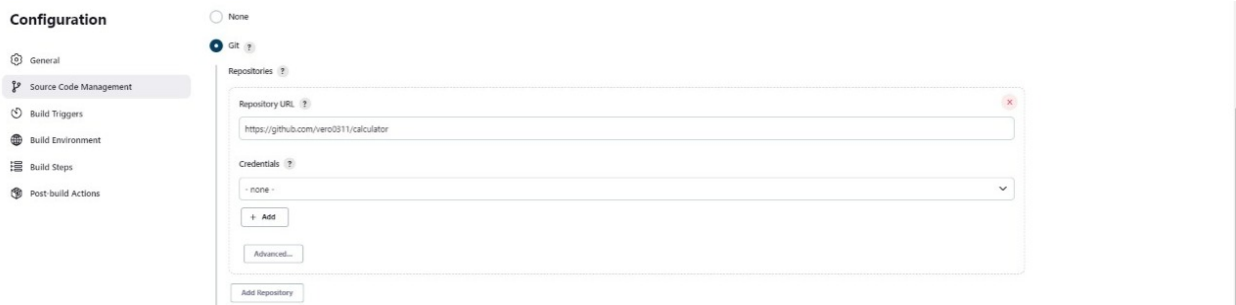
**echo Main-class: Calculator** => The string that we have here (Calculator) is going to be added to the Manifest file in the first line of it.

## 1. Establishing the jobs that we are going to work with.



The screenshot shows the Jenkins Configuration page with the 'General' tab selected. The left sidebar lists various configuration options: General, Source Code Management, Build Triggers, Build Environment, Build Steps, and Post-build Actions. The main area is titled 'General' and contains a 'Description' field with the following text: '1. Crear un job que haga lo siguiente: 1.1. Descargue el proyecto de la rama master 1.2. Compile el proyecto 1.3. Genere el archivo jar del proyecto'. Below the description is a 'Plain text' preview link. There are five checkboxes: 'Discard old builds', 'GitHub project', 'This project is parameterized', 'Throttle builds', and 'Execute concurrent builds if necessary'. An 'Advanced...' button is at the bottom.

## 2. We are going to select the git option, and insert the repository link



The screenshot shows the Jenkins Configuration page with the 'Source Code Management' tab selected. The left sidebar lists various configuration options: General, Source Code Management, Build Triggers, Build Environment, Build Steps, and Post-build Actions. The main area is titled 'Source Code Management' and contains a 'Repositories' section. The 'Repository URL' field is filled with 'https://github.com/vero0311/calculator'. The 'Credentials' dropdown is set to 'none'. There are '+ Add' and 'Advanced...' buttons. An 'Add Repository' button is at the bottom.

On this part, we select the branch that we are going to work with

Branches to build ?

Branch Specifier (blank for 'any') ?

Add Branch

Repository browser ?

(Auto) ▾

Additional Behaviours

Add ▾

Save Apply

3. We select the github credentials in order to continue with the next step

Credentials ?

carlosloyal/\*\*\*\*\* (My git hub credentials) ▾

+ Add

Advanced...

Add Repository

4. We need to select the (Execute Windows batch command for windows system) Take in mind it may vary depending on the operating system.

#### Build Steps

Execute Windows batch command ?

Command

See [the list of available environment variables](#)

```
cd src
javac calculator.java
touch Manifest.txt
echo Main-class: Calculator> Manifest.txt
jar cvfm MyJarCalculator.jar Manifest.txt Calculator.class
```

Advanced...

Add build step ▾

#### Post-build Actions

Add post-build action ▾

Save Apply

5. In the command section we put the commands, and click in save to continue.

**cd src** = The system is going to be located in the (SRC) field.  
**javac calculator.java**  
**fsutil file createnew Manifest.txt 0**  
**echo Main-class: Calculator> Manifest.txt**  
**jar cvfm MyJarCalculator.jar Manifest.txt Calculator.class**

Execute Windows batch command ?

Command

See [the list of available environment variables](#)

```
cd src
javac calculator.java
touch Manifest.txt
echo Main-class: Calculator> Manifest.txt
jar cvfm MyJarCalculator.jar Manifest.txt Calculator.class
```

Advanced...

Add build step ▾

Post-build Actions

Add post-build action ▾

Save Apply

6. We are going to click in the console Output option in order to see the LOGS of the whole process.

↑ Back to Project

☰ Status

↔ Changes

📄 Console Output

📝 Edit Build Information

🗑 Delete build '#1'

🔗 Git Build Data

→ Next Build

✅ Build #1 (Nov 4, 2022, 7:21:01 PM)

📄 No changes.

🕒 Started by user [CarlosLeal](#)

📄 **Revision:** b2ec49664e0aa02b087274ba23f09bd99629c530

📄 **Repository:** <https://github.com/vero0311/calculator>

- refs/remotes/origin/master

7. With the Green Tick we verify that all went through.

↑ Back to Dashboard

Status

</> Changes

Workspace

▶ Build Now

⚙️ Configure

🗑️ Delete Project

✎️ Rename

## Project MyJarCalculator

1. Crear un job que haga lo siguiente:  
1.1. Descargue el proyecto de la rama master  
1.2. Compile el proyecto  
1.3. Genere el archivo .jar del proyecto

### Permalinks

- Last build (#2), 2 min 25 sec ago
- Last stable build (#2), 2 min 25 sec ago
- Last successful build (#2), 2 min 25 sec ago
- Last completed build (#2), 2 min 25 sec ago

🔍 Build History trend

🔍 Filter builds...

🟢 #2 Nov 4, 2022 7:43 PM

🟢 #1 Nov 4, 2022 7:21 PM

📡 Atom feed for all 📡 Atom feed for failures

8. In this part (console Output) we have verified that the whole process was run successfully.

↑ Back to Project

Status

</> Changes

Console Output

View as plain text

📄 Edit Build Information

🗑️ Delete build #1

🔍 Git Build Data

→ Next Build

🟢 Console Output

```
Started by user CarlosLeal
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\MyJarCalculator
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir C:\ProgramData\Jenkins\jenkins\workspace\MyJarCalculator\.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/ver0811/calculator # timeout=10
Fetching upstream changes from https://github.com/ver0811/calculator
> git --version # timeout=10
> git --version # 'git version 2.38.0.windows.1'
> git fetch --tags --force --progress -- https://github.com/ver0811/calculator --refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse 'refs/remotes/origin/master':{commit} # timeout=10
Checking out Revision b2ec49664e0aa02b087274ba23f09bd99629c530 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f b2ec49664e0aa02b087274ba23f09bd99629c530 # timeout=10
Commit message: "Calculator project"
First time build. Skipping changelog.
[MyJarCalculator] $ cmd /c call C:\Windows\TEMP\Jenkins5515878842684404514.bat

C:\ProgramData\Jenkins\jenkins\workspace\MyJarCalculator>cd src

C:\ProgramData\Jenkins\jenkins\workspace\MyJarCalculator\src>javac calculator.java

C:\ProgramData\Jenkins\jenkins\workspace\MyJarCalculator\src>touch Manifest.txt
'touch' is not recognized as an internal or external command,
operable program or batch file.

C:\ProgramData\Jenkins\jenkins\workspace\MyJarCalculator\src>echo Main-class: Calculator 1>Manifest.txt

C:\ProgramData\Jenkins\jenkins\workspace\MyJarCalculator\src>jar cvfm MyJarCalculator.jar Manifest.txt Calculator.class
added manifest
adding: Calculator.class(in = 1066) (out= 564)(deflated 47%)

C:\ProgramData\Jenkins\jenkins\workspace\MyJarCalculator\src>exit 0
Finished: SUCCESS
```