Project 8: Exercise Project

Solution:

Step 1: Open GIT bash

Step 2: Create a directory with the following steps

mkdir maventest1

cd maventest1

Step 3: Create project

mvn archetype:generate \

- -DgroupId=com.yourname \
- -DartifactId=repo name \
- -DarchetypeArtifactId=maven-archetype-quickstart \
- -DinteractiveMode=false

Output will be like this:

```
Saura@GAURAY MINGW64 ~

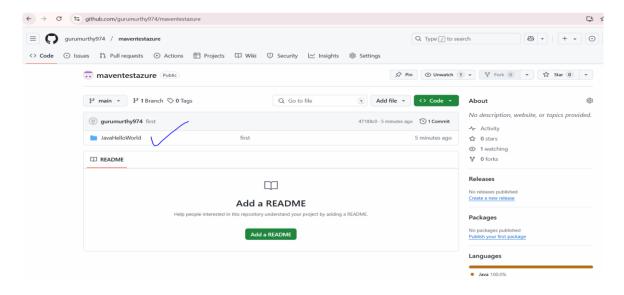
$ mkdir mt

Saura@GAURAY MINGW64 ~

$ \[ \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \
```

```
project created from old (1.x) Archetype in dir. c.\osers\gadra\mi\gsss
    INFO
                              BUILD SUCCESS
   [INFO]
    [INFO]
                              Total time: 1.382 s
Finished at: 2025-03-13T00:35:33+05:30
    INFO
     INFO
   INFO
    gaura@GAURAV MINGW64 ~/mt
 substitution of the state of th
    gaura@GAURAV MINGW64 ~/mt (master)
       git add .
 gaura@GAURAV MINGW64 ~/mt (master)
$ git commit -m "first commit"
[master (root-commit) e48ec56] first commit
3 files changed, 69 insertions(+)
create mode 100644 gsss/pom.xml
create mode 100644 gsss/src/main/java/com/gauravwecan/App.java
create mode 100644 gsss/src/test/java/com/gauravwecan/AppTest.java
    gaura@GAURAV MINGW64 ~/mt (master)
       git branch -M main
   gaura@GAURAV MINGW64 ~/mt (main)
   $ git remote add origin https://github.com/gauravwecan/gsss.git
  gaura@GAURAV MINGW64 ~/mt (main)
       git push -u origin main
* [new branch] main -> main
branch 'main' set up to track 'origin/main'.
```

Step 4: Check your Github account, your file will be uploaded.



Step 5: Check for pom.xml file

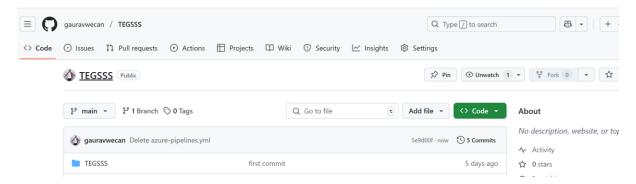
```
TEGSSS / TEGSSS / pom.xml 📮
 dalvik1 first commit
          Blame 18 lines (18 loc) · 640 Bytes
  Code
                                            Code 55% faster with GitHub Copilot
           xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
            <modelVersion>4.0.0</modelVersion>
            <groupId>com.gauravwecan
            <artifactId>TEGSSS</artifactId>
            <packaging>jar</packaging>
            <version>1.0-SNAPSHOT</version>
            <name>TEGSSS</name>
     9
            <url>http://maven.apache.org</url>
     10
            <dependencies>
             <dependency>
               <groupId>junit</groupId>
     13
               <artifactId>junit</artifactId>
               <version>3.8.1
               <scope>test</scope>
             </dependency>
     17
            </dependencies>
           </project>
```

Project 12: Exercise Project

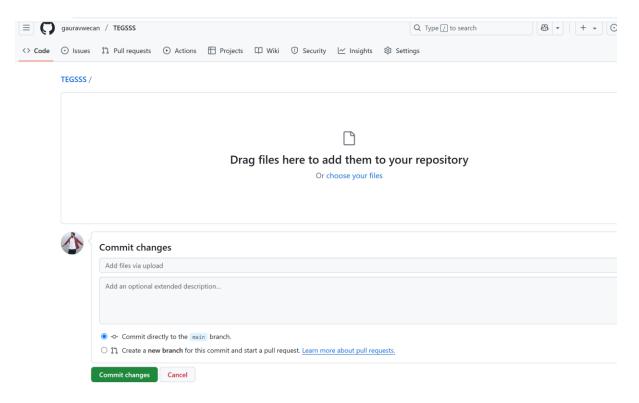
Solution:

Step 1: Follow all 5 steps of project 8.

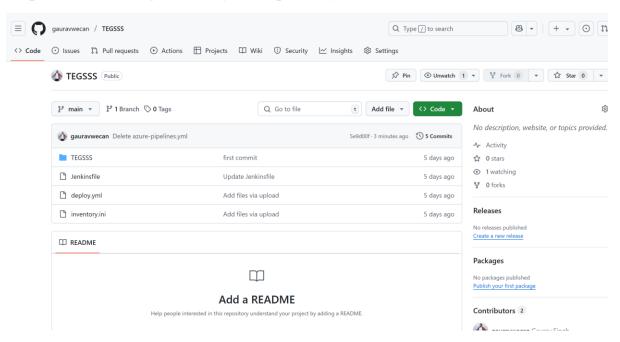
Step 2: Click on Add file and upload 3 files from Laptop / PC



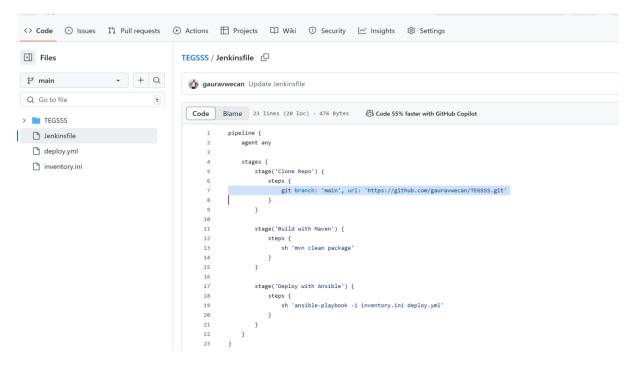
Step 3: Add the file and click on Commit changes



Step 4: After adding the file, your repository will look like this:



Step 5: Go to Jenkins file, Check for "git path"



Check the highlighted path, and change the link by your own github repository.

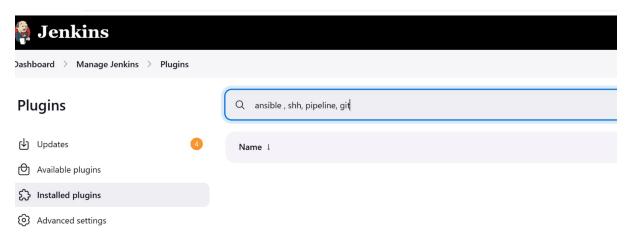
Step 6: Open Jenkins:

Go to Manage Jenkins – Click on plugins, and download Ansible, Maven, ssh, Git plugins.

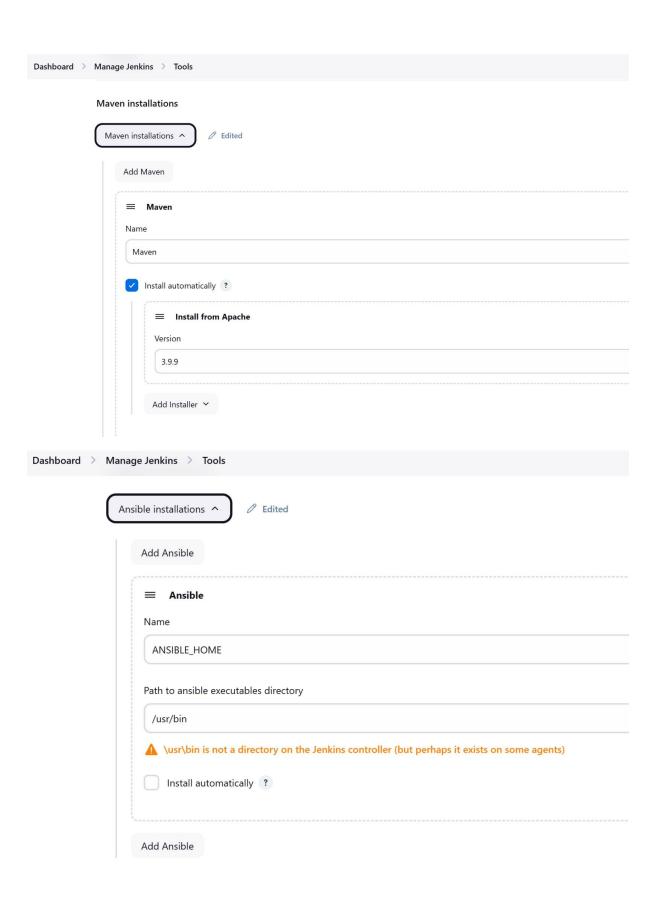
Step 7:

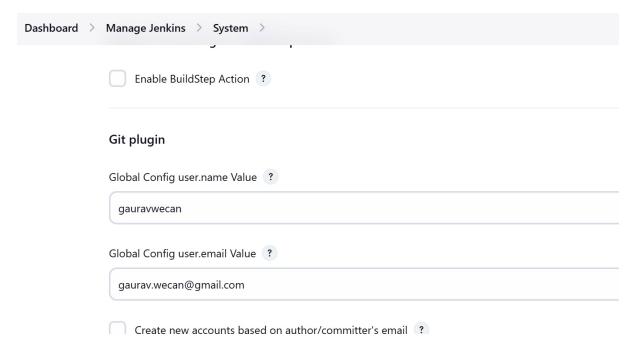
Open and sign-in into your Jenkins Account.

Go to Manage Jenkins – Click on Tools and configure the plugins one by one as shown in the images below:



Dashboard > Manage Jenkins > Tools	
JDK installations	
JDK installations ^ @ Edited	
Add JDK	
■ JDK	
Name	
JDK	
JAVA_HOME	
C:\Program	Files\Java\jdk-21
Install a	utomatically ?
Add JDK	
Dashboard > Manage Jenkins > Tools	
Git inst	allations
<u> </u>	
=	Git
Name	
GIT	_HOME
Path t	to Git executable ?
C:\F	Program Files\Git\cmd\git.exe
	Install automatically ?
L.	
Add G	it 🗸

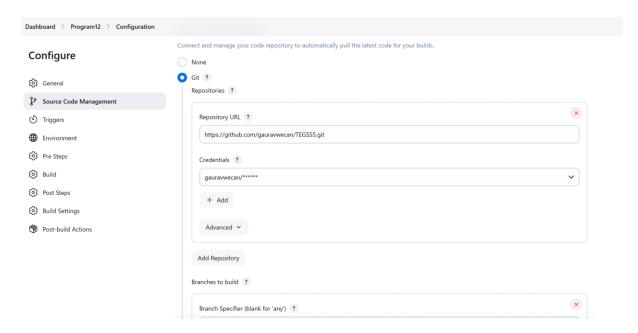


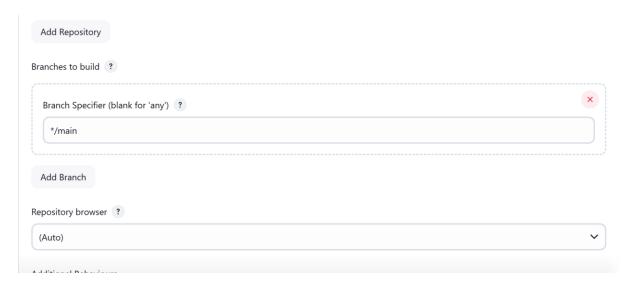


Once done, Click on Apply and Save

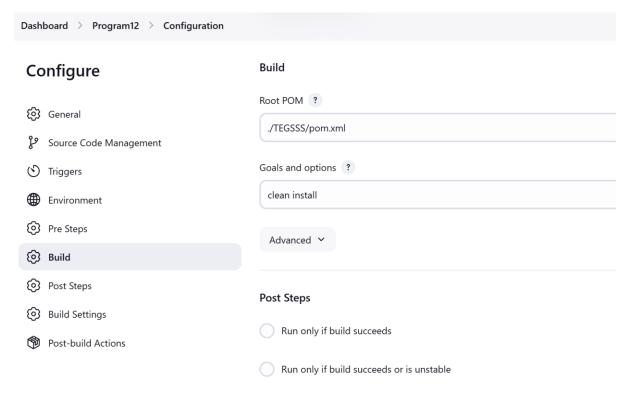
Step 8: Create a New-Item on Jenkins, create a Maven project. Go to Configure project.

Step 9: Under Source Code Management, Add the Git repository path and Credentials.



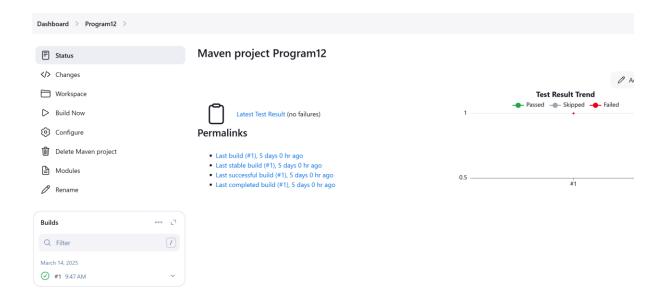


Step 10: Go to build within configure, make the following Changes:

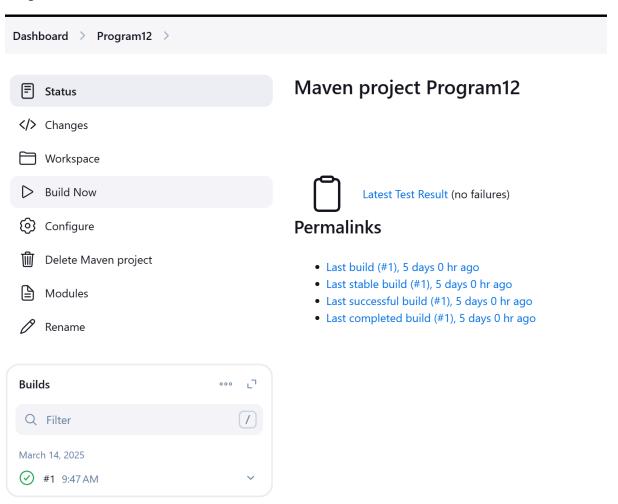


Then Click on Apply and Save.

Step 11: Project will be ready. You should see a window like this:



Step 12: Click on Build Now:



If you get a green tick in your builds section.

Click on the tick mark. Go to console output and confirm the result.

