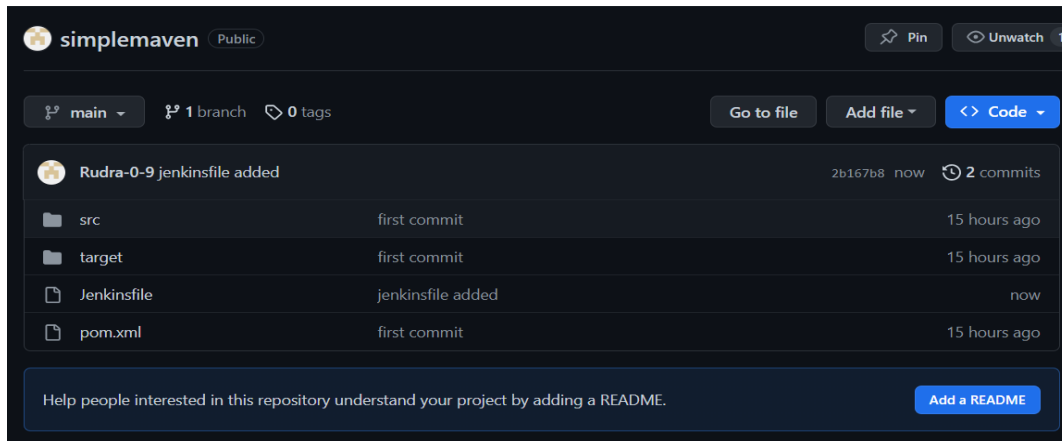


Experiment -2

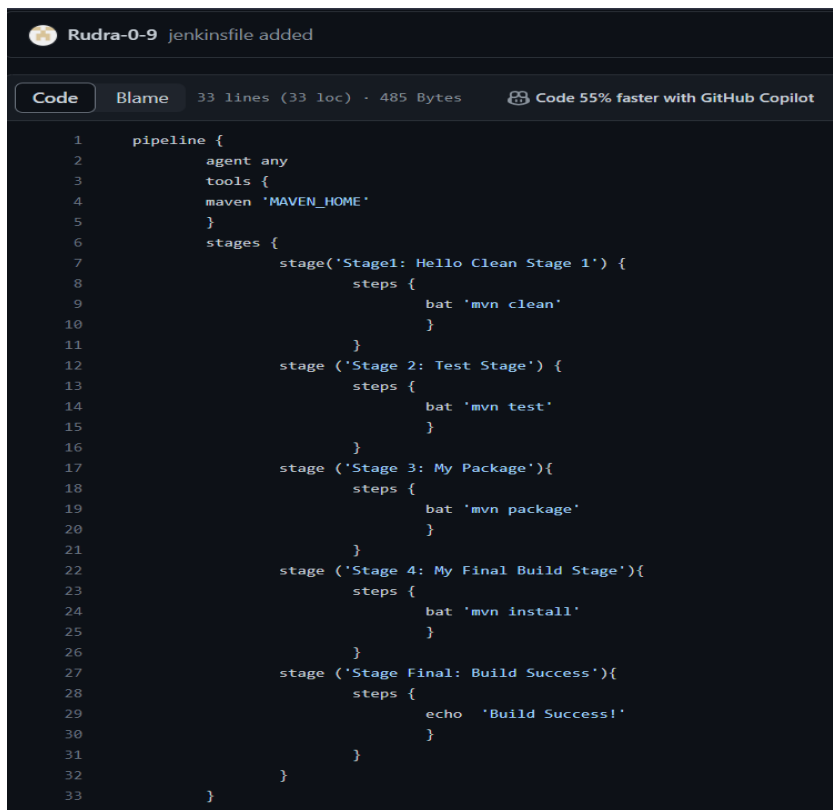
(Creating a Jenkins Pipeline with a Jenkins File)

Objective: Create a Jenkins pipeline using a Jenkins file that builds a simple project, runs tests, and deploys the project to a designed environment.

1. Create a simple maven Project (the same one used in Experiment -1) and push the project to GitHub.



2. Create a Jenkins file and push it to GitHub repo (in the root dir) Note: the following Jenkins file includes stages associated with maven project




3. Create a Jenkins Pipeline CONFIGURATION:


Enter an item name

Lab2


» Required field

**Freestyle project**


This is the central feature of Jenkins. Jenkins will build your project, compile for something other than software build.

**Maven project**


Build a maven project. Jenkins takes advantage of your POM files and drives

**Pipeline**

Orchestrates long-running activities that can span multiple build agents. and/or organizing complex activities that do not easily fit in free-style jobs

**Multi-configuration project**

Suitable for projects that need a large number of different configurations builds, etc.

**Folder**

Creates a container that stores nested items in it. Useful for grouping things in a separate namespace, so you can have multiple things of the same name.

OK

4. Select pipeline Script from SCM (git) and provide GitHub repo URL.

Pipeline

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/Rudra-0-9/simplemaven

Credentials ?

- none -

+ Add

5. Provide the Jenkins file path (path in the repo) in the Script Path.

Script Path ?

Jenkinsfile

☒ Lightweight checkout ?

[Pipeline Syntax](#)

6. Now if we make any changes to the GitHub repo and push it, it will trigger a new pipeline build.

