Lab Experiment 2: Creating a Jenkins Pipeline with a Jenkinsfile

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

Prerequisites:

- 1. Jenkins server up and running.
- 2. A sample project hosted in a version control repository (e.g., Git).

Steps:

Jenkins Configuration:

- Ensure that Jenkins is installed and accessible.
- Install necessary plugins: Pipeline and any plugins specific to your version control system (e.g., Git Plugin).

Setting Up the Project:

• Create a sample project (e.g., a simple web application) and host it on a version control repository (e.g., GitHub).

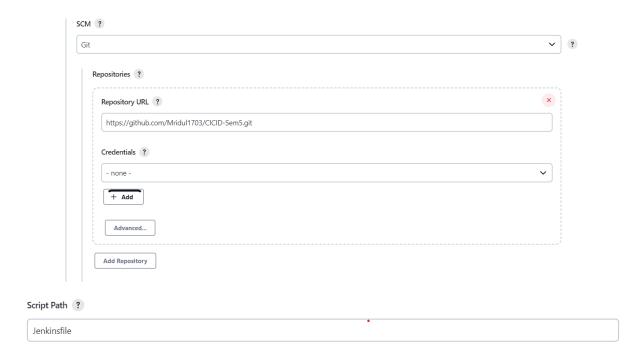
Creating a Jenkinsfile:

In the root of your project repository, create a file named Jenkinsfile.

Configuring the Pipeline in Jenkins:

- In Jenkins, create a new pipeline job.
- Link the job to your version control repository (e.g., provide the repository URL).
- Choose the option to use a Jenkinsfile from the repository and specify the path to your Jenkinsfile (usually the root directory).

Build after other projects are built ?	
Build periodically ?	
GitHub hook trigger for GITScm polling ?	
Poll SCM ?	
Schedule ?	



Running the Pipeline:

• Trigger the pipeline manually or set up a webhook to trigger it automatically on repository changes.

