Jenkins Lab 2

01) What is Jenkins pipeline?

>> Jenkins Pipeline is a suite of plugins which supports implementing and integrating continuous delivery pipelines into Jenkins.
A continuous delivery (CD) pipeline is an automated expression of your process for getting software from version control right through to your users and customers. Every change to your software (committed in source control) goes through a complex process on its way to being released. This process involves building the software in a reliable and repeatable manner, as well as progressing the built software (called a "build") through multiple stages of testing and deployment.

02) What scripting language is Jenkins pipeline syntax based on?

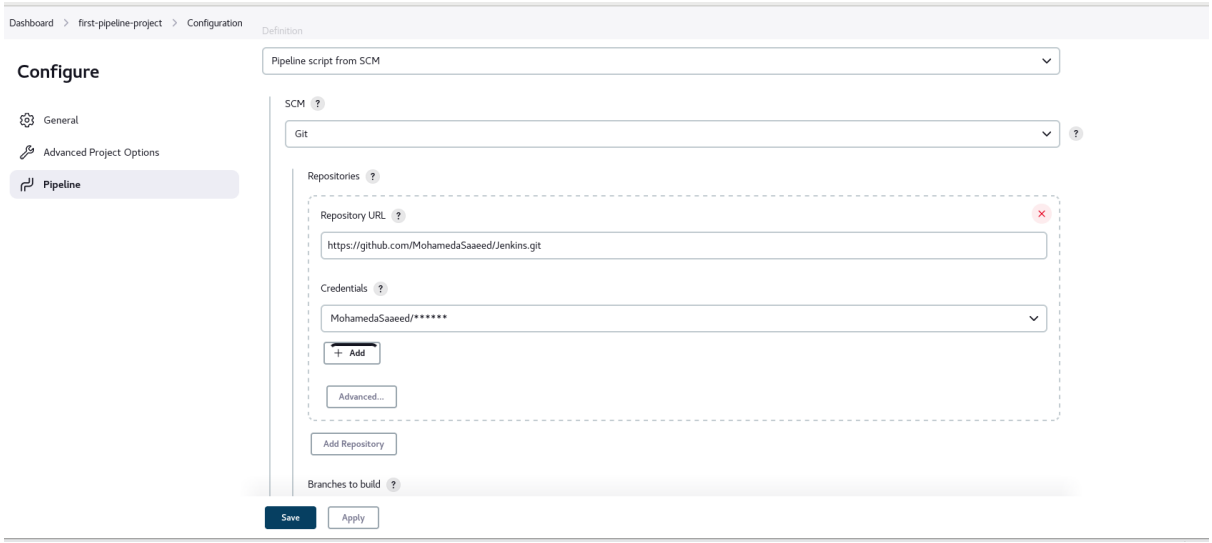
>> Groove programming Language.

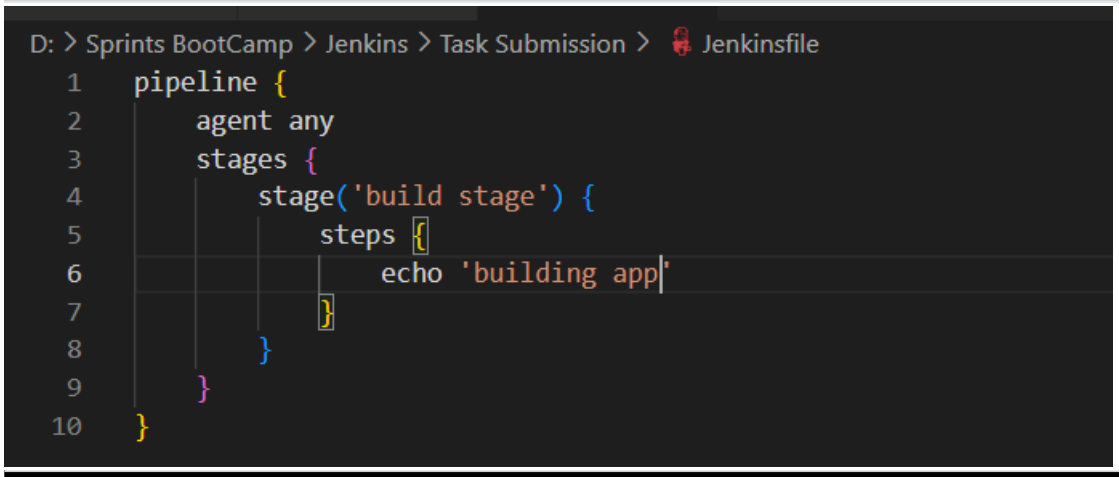
03) What are the ways you can write pipeline in Jenkins?

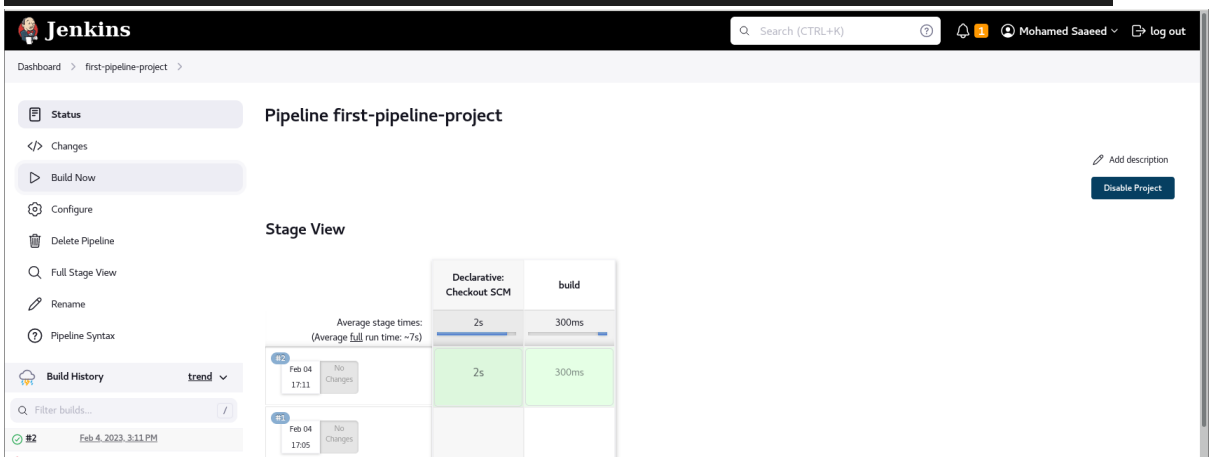
>> There are two types of Jenkins pipeline syntax used for defining your Jenkins File.
Declarative:
Declarative pipeline syntax offers an easy way to create pipelines. It contains a predefined hierarchy to create Jenkins pipelines. It gives you the ability to control all aspects of a pipeline execution in a simple, straight-forward manner.

Scripted:
Scripted Jenkins pipeline runs on the Jenkins master with the help of a lightweight executor. It uses very few resources to translate the pipeline into atomic commands. Both declarative and scripted syntax are different from each other and are defined totally differently.

04) Create Jenkins pipeline for your repo and use script file (Jenkins file) to write pipeline syntax?







05)Create another multibranch pipeline and filter branches to contain only (master, dev, test)?

Git

Project Repository ?

https://github.com/MohamedaSaaeed/Jenkins.git

Credentials ?

MohamedaSaaeed/******

+ Add

Behaviors

Discover branches ?

Filter by name (with wildcards)

Include ?

dev main test

Exclude ?

first-multibranch-pipeline

Disable Multibranch Pipeline

Branches (3)

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☼	dev	1 hr 26 min #1	N/A	25 sec
✓	☼	main	1 hr 26 min #1	N/A	15 sec
✓	☼	test	1 hr 26 min #1	N/A	21 sec

Icon: S M L

Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds