Lab2

01) What is Jenkins pipeline?

Jenkins pipeline is a collection of plugins which supports implementing and integrating continuous delivery pipelines into Jenkins. A continuous delivery pipeline is an automated expression of your process for getting software from version control right through to your users and customers.

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

Groovy (java-language)

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

Scripted Pipeline:

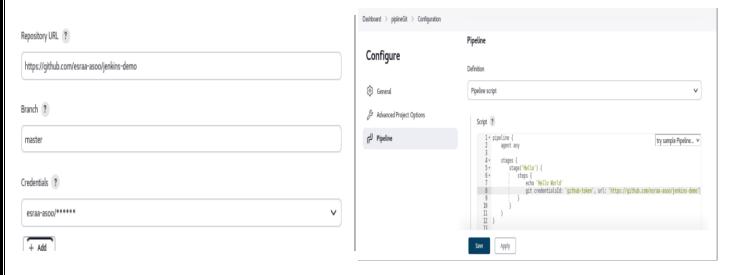
A scripted pipeline uses the Groovy (JVM@based) language to create a pipeline as code.

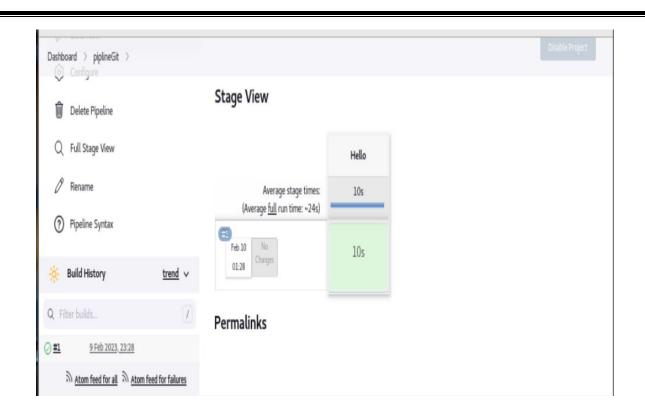
- -Problems with scripted pipeline:
 - The imbalance between developers' experience in Groovy and Jenkins creates an impedance mismatch that is not easy to remove.
 - Although scripted syntax is powerful and expedites the creation of complex pipelines, it concurrently makes the pipeline hard to read and hard to manage

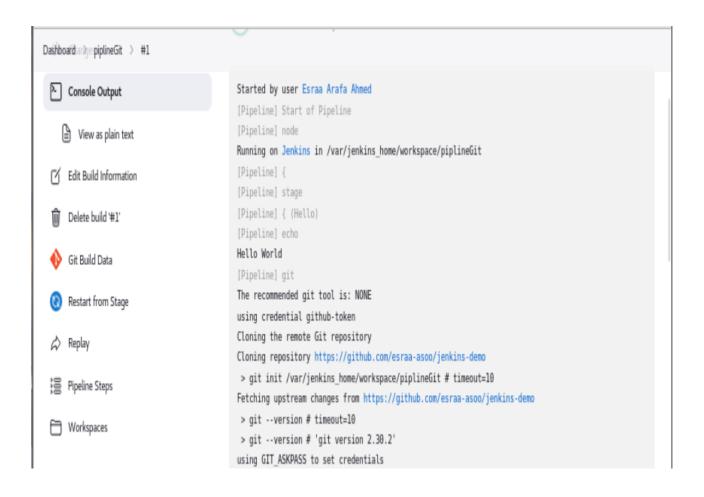
Declarative Pipeline:

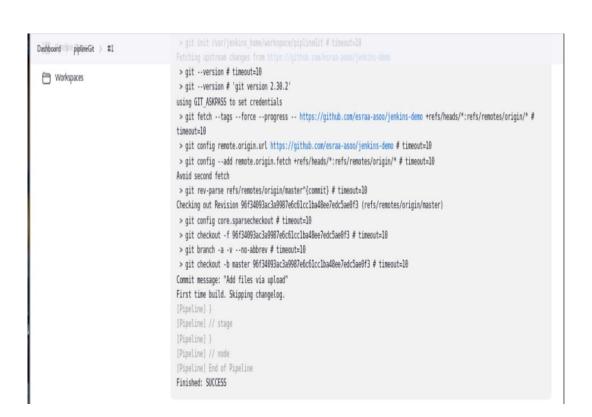
The declarative pipeline follows a relatively newer syntax, which narrows the scope of the pipeline structure through a pre-defined "minimum necessary structure." On the technical front, the declarative syntax follows a conditional statement logic that generates a series of stages, executed sequentially throughout the pipeline's lifecycle. declarative pipelines don't make use of Groovy code, the declarative syntax doesn't access valuable APIs.

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









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

