Jenkins
Lab_2

1- 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.

2- 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.