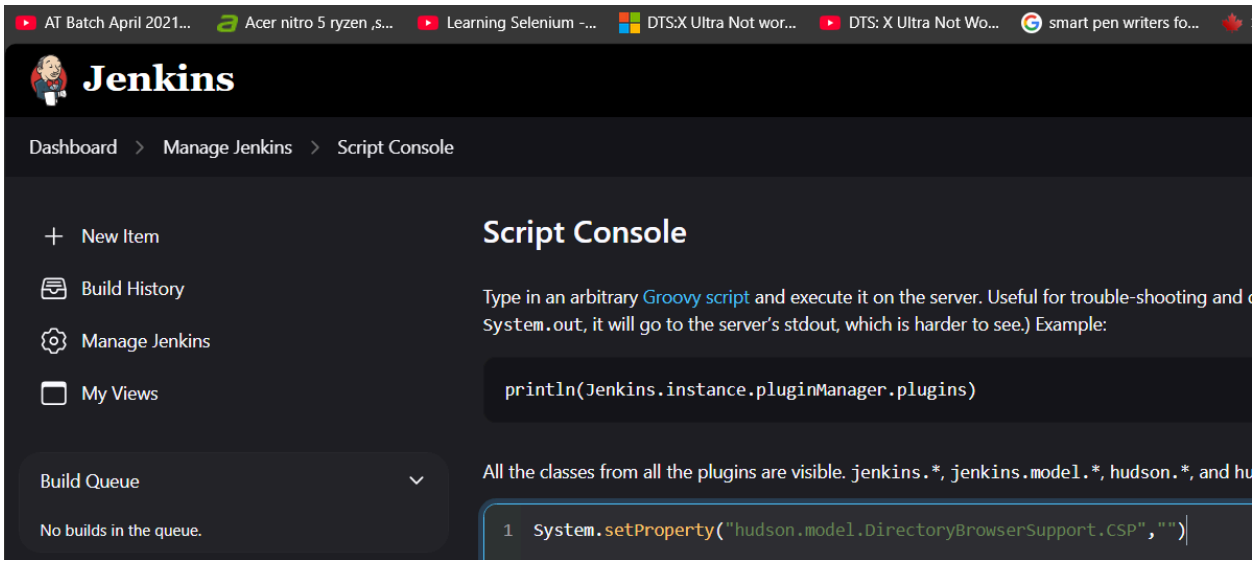
Trigger options–


Poll scm - it will keep polling the github at the time mentioned.


Html reports cannot be directly seen in jenkins.

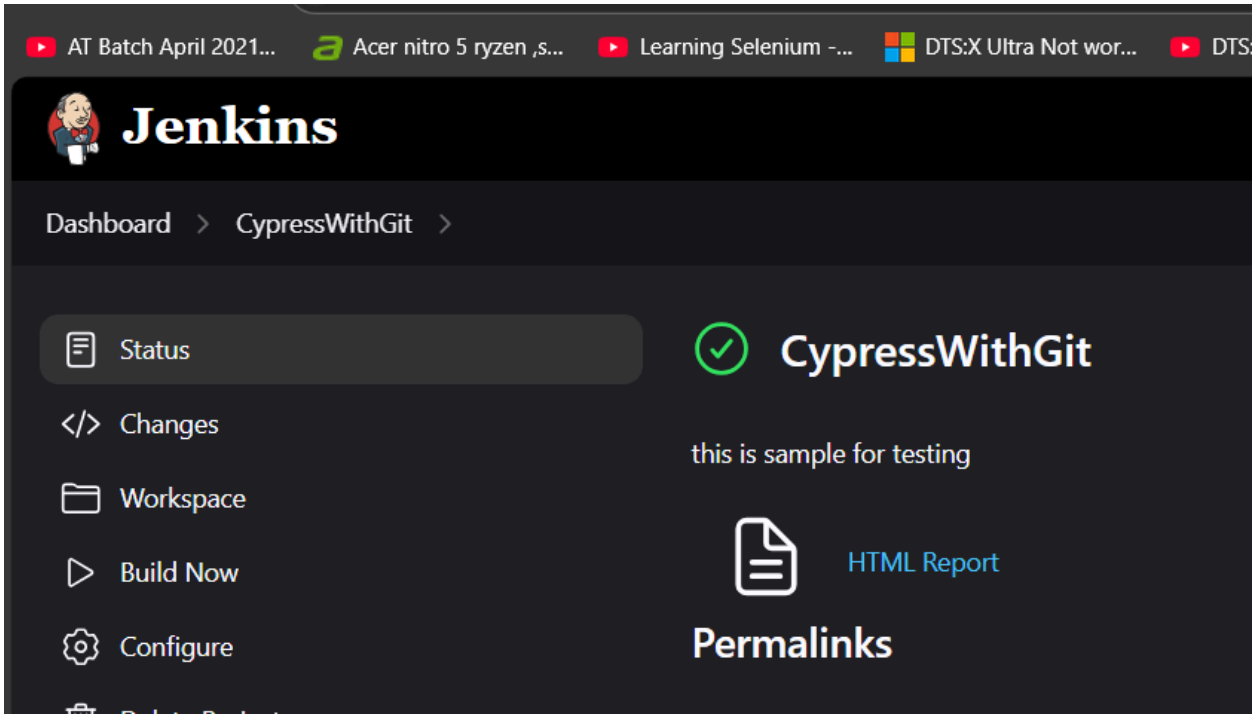
Go to manage jenkins.
Script console.


Clear picture -

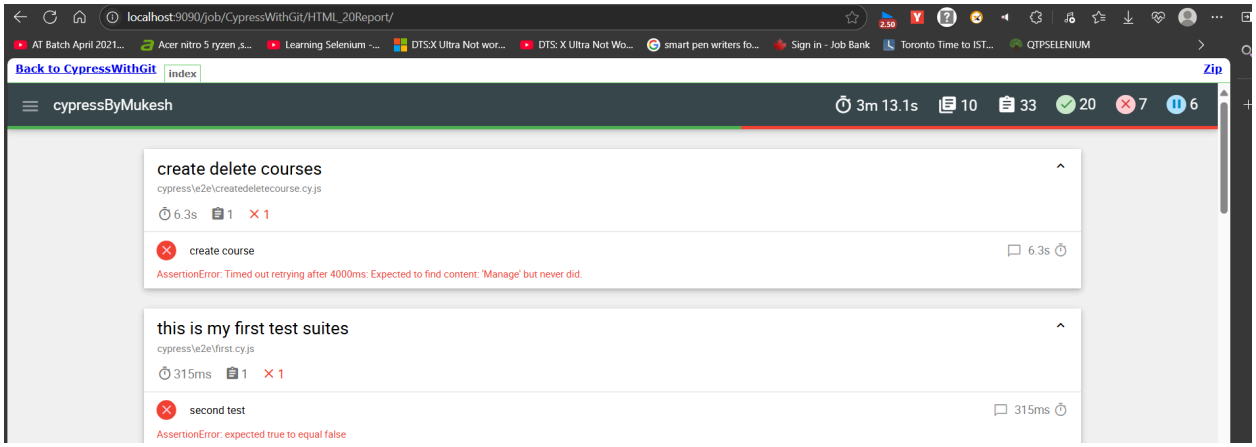



This script mukesh took from somewhere.
Click run.
Till jenkins is up and running it will work.
Once jenkins closed then we need to rerun this.

Now click html -

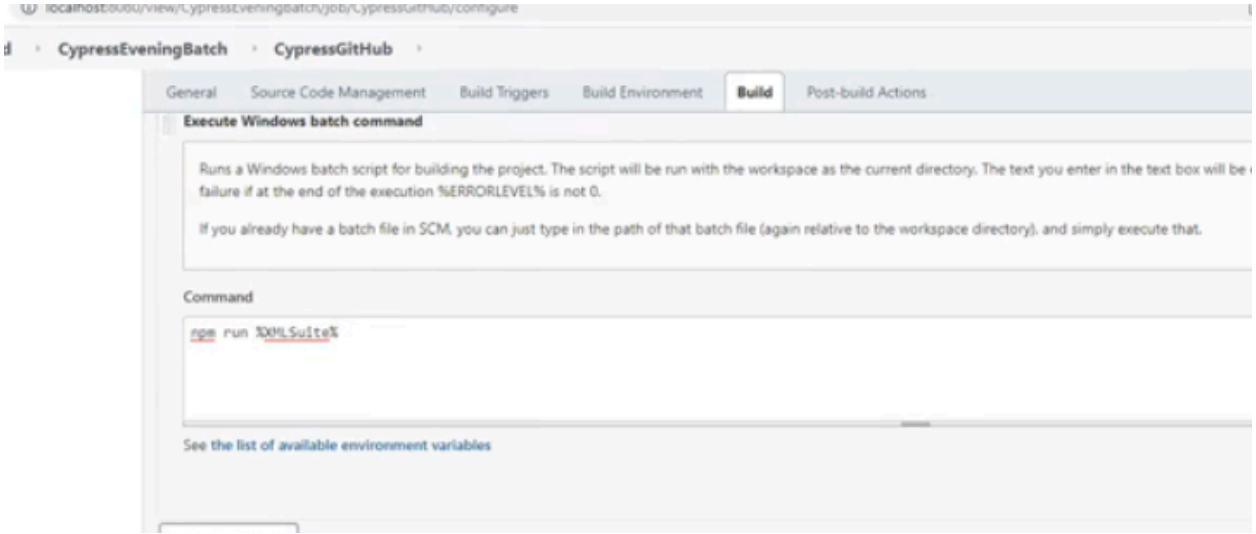



We see report directly in jenkins-

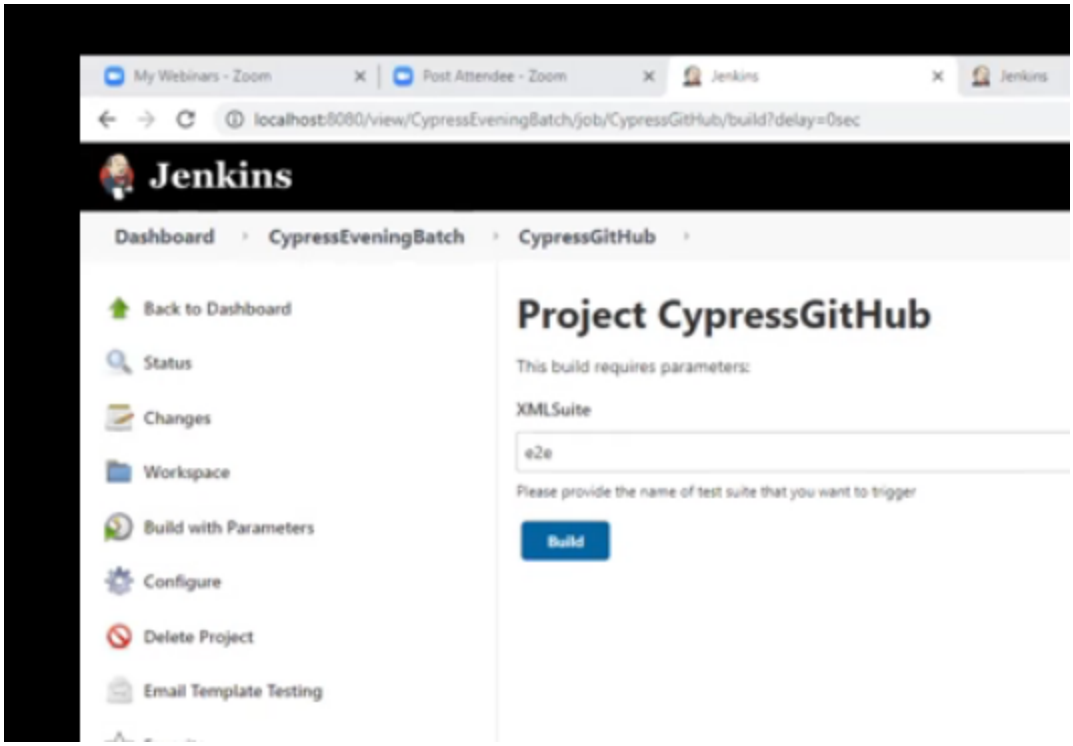



Why we added groovy -
Known bug in jenkins for not showing html report.

Note-
If we want to run different jobs one option is create different executables.
Second way and best is parameterise.

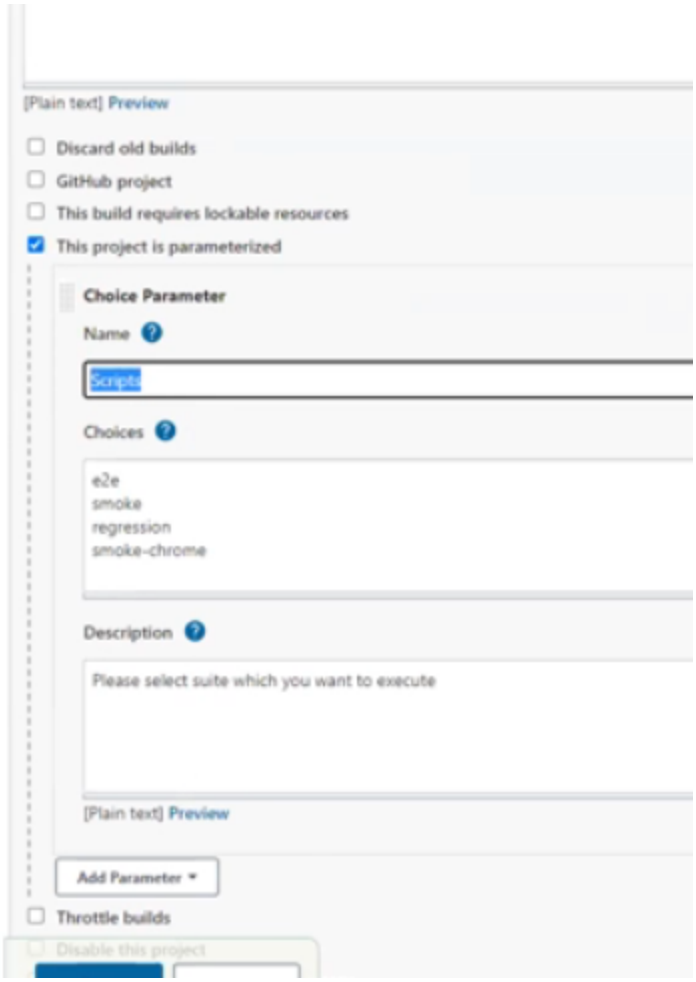



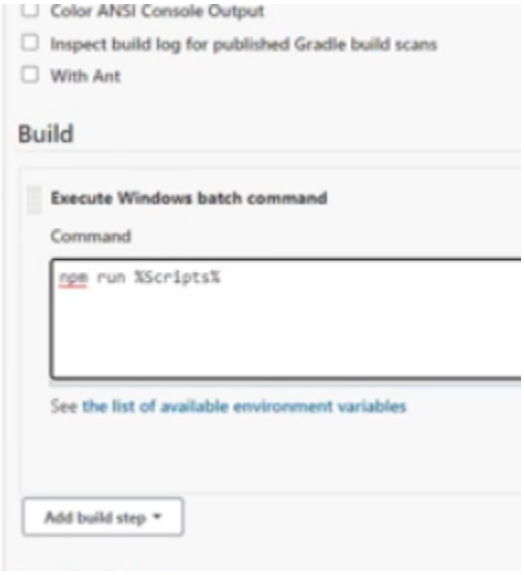

See name of the build area is changed to build with parameters and the value how we pass-

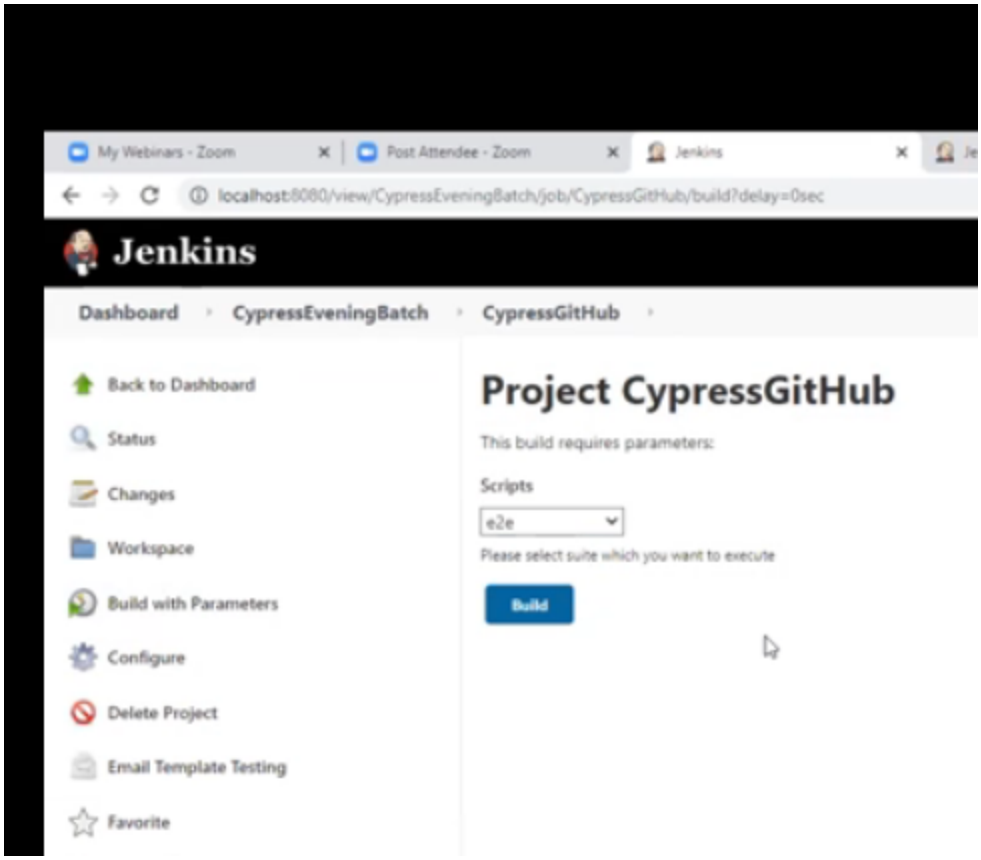



Problem with string parameter, we give wrong values and the script fails.

Choice parameter-

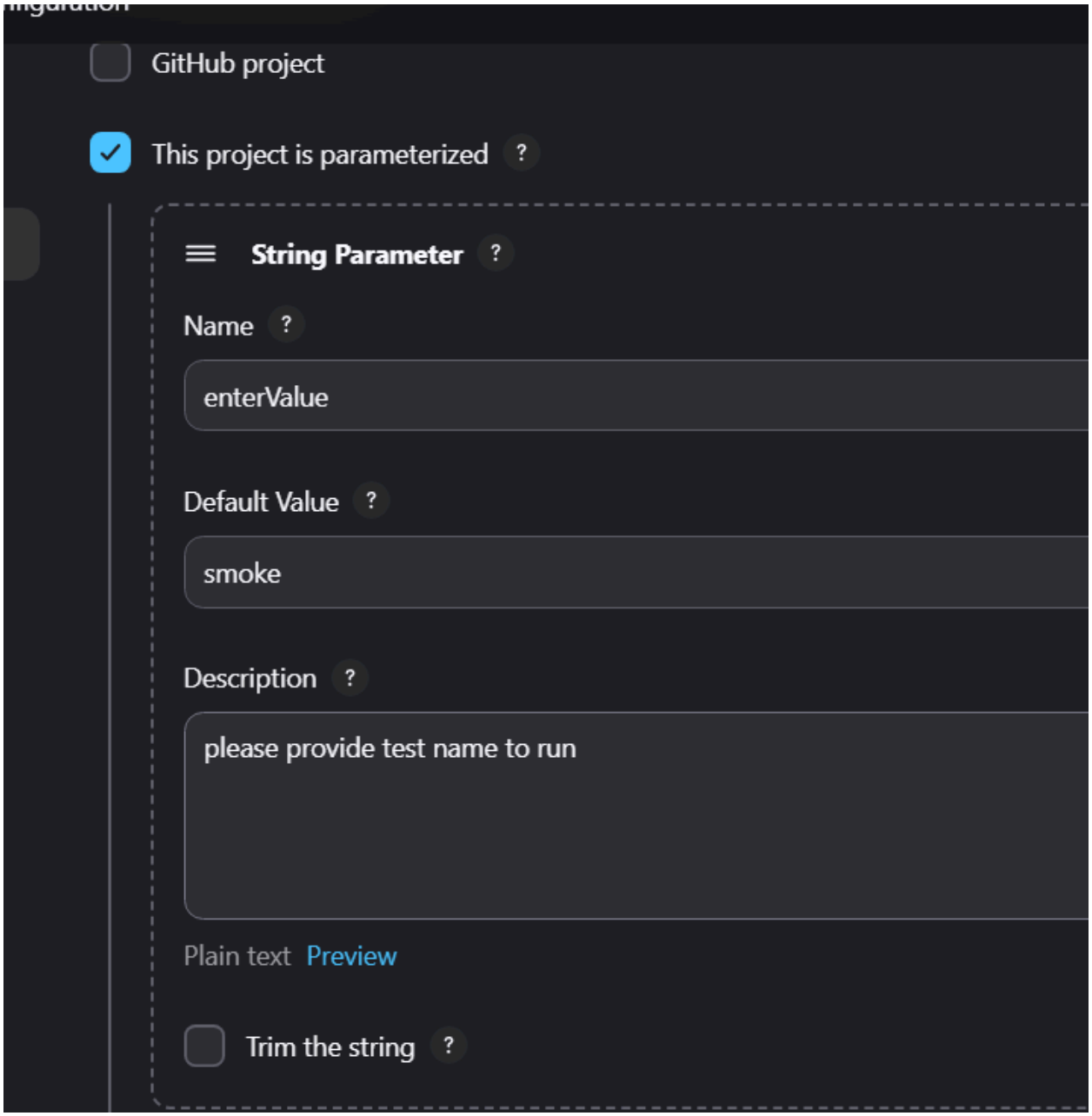

[Plain text] Preview
Discard old builds
GitHub project
This build requires lockable resources
This project is parameterized
Choice Parameter
Name
Scripts
Choices
e2e
smoke
regression
smoke-chrome
Description
Please select suite which you want to execute
[Plain text] Preview
Add Parameter
Throttle builds
Disable this project

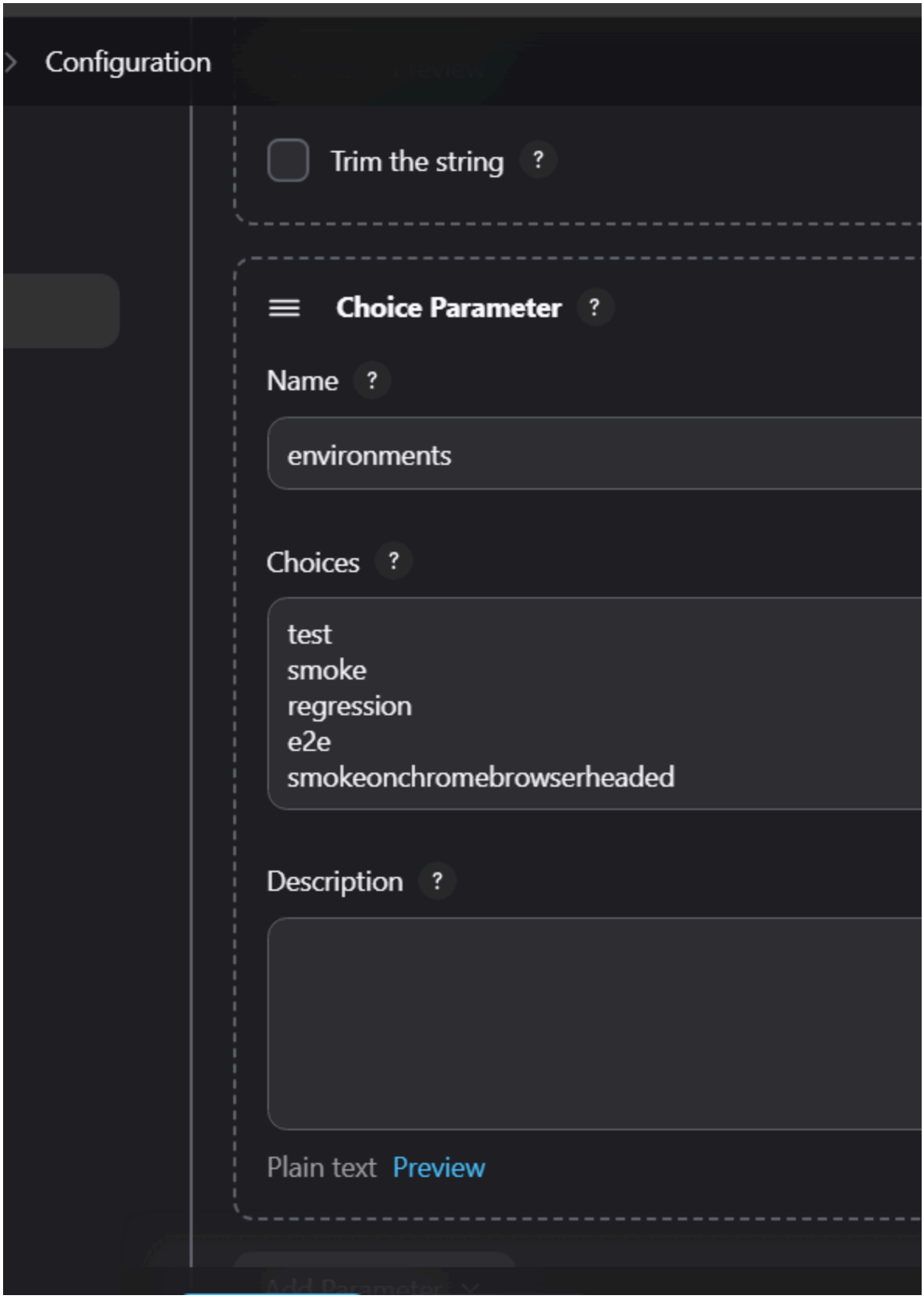

Color ANSI Console Output
Inspect build log for published Gradle build scans
With Ant
Build
Execute Windows batch command
Command
npm run %Scripts%
See the list of available environment variables
Add build step



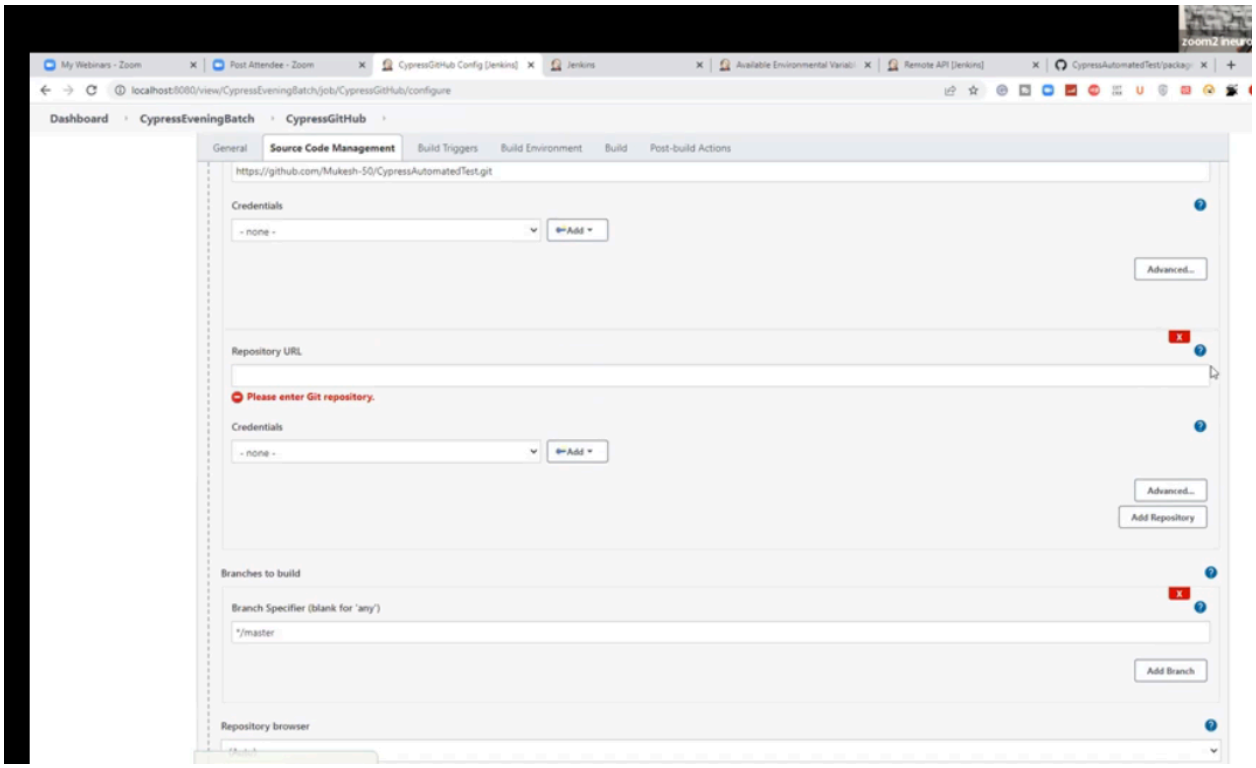

In choice always keep the environment on which you want to run the cron jobs first, else it will pick the first one you mentioned.

NOTE-
If we have two parameters, then the first one is picked up by default. Second parameter is not picked up. So either use choice or string or boolean or etc etc.
Not a good practice-


GitHub project
This project is parameterized
String Parameter
Name
enterValue
Default Value
smoke
Description
please provide test name to run
Plain text
Preview
Trim the string


Configuration
Trim the string
Choice Parameter
Name
environments
Choices
test
smoke
regression
e2e
smokeonchromebrowserheaded
Description
Plain text
Preview

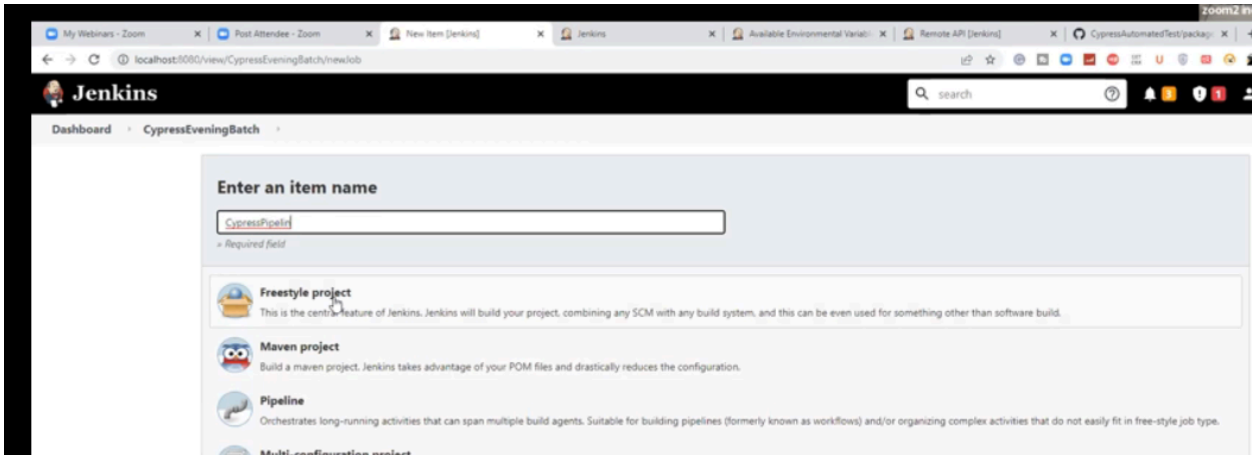
We can add multiple repo and specify the branches where the repo should run.




Pipeline-
If one job fails entire pipeline fails.

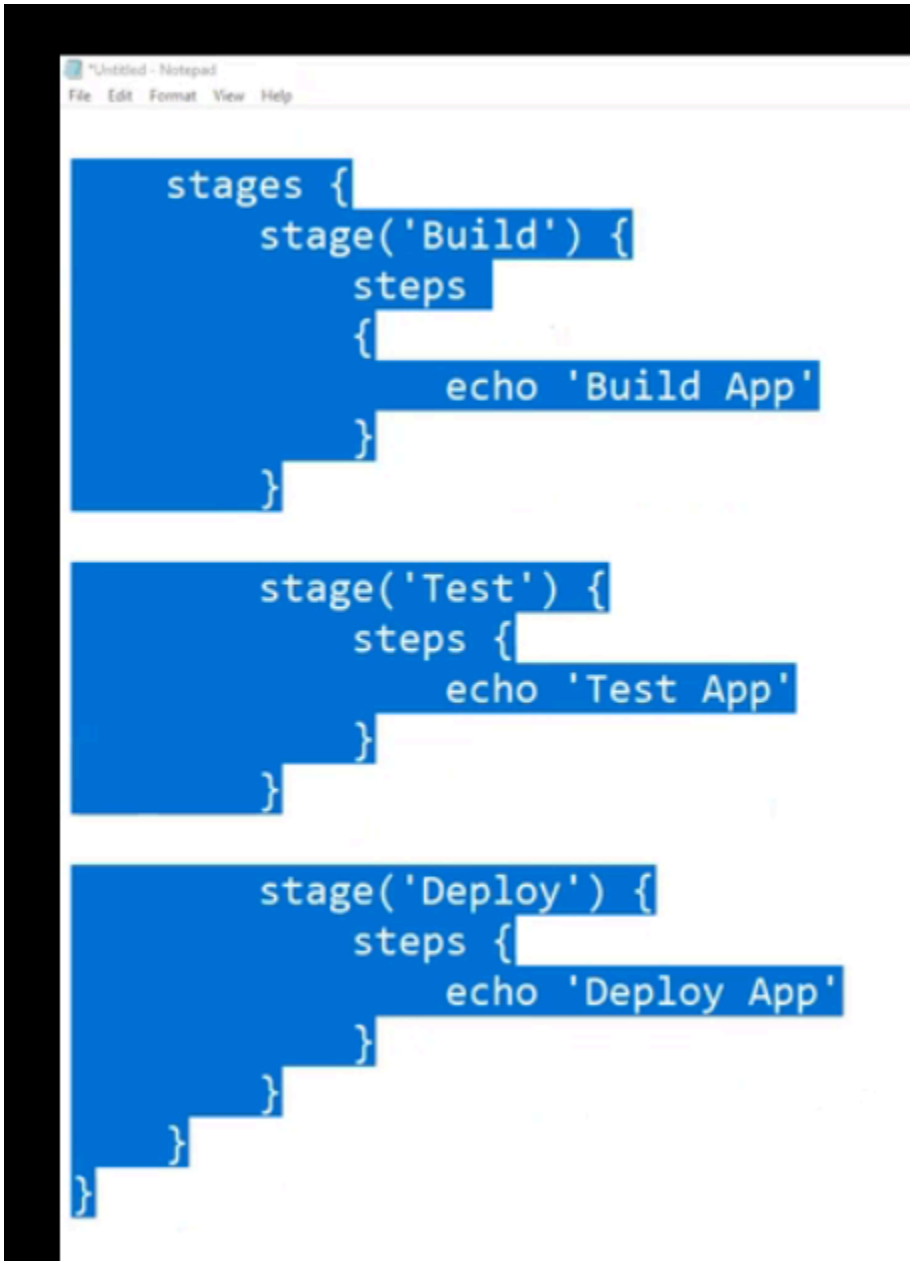

Agent means where the pipeline will run.
**Agent any** means any agent which is free will run the code.

Enter name.
Select pipeline.



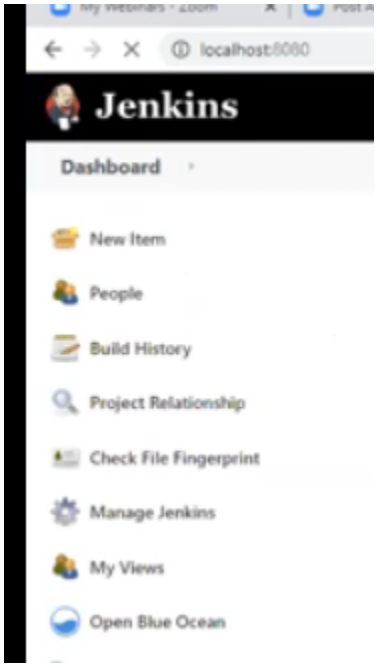
Note-
Scroll down and you will see pipeline generator.
There is pipeline syntax generator already present, you select what you want and the script will be generated. You copy paste in your code.

The simplest pipeline-

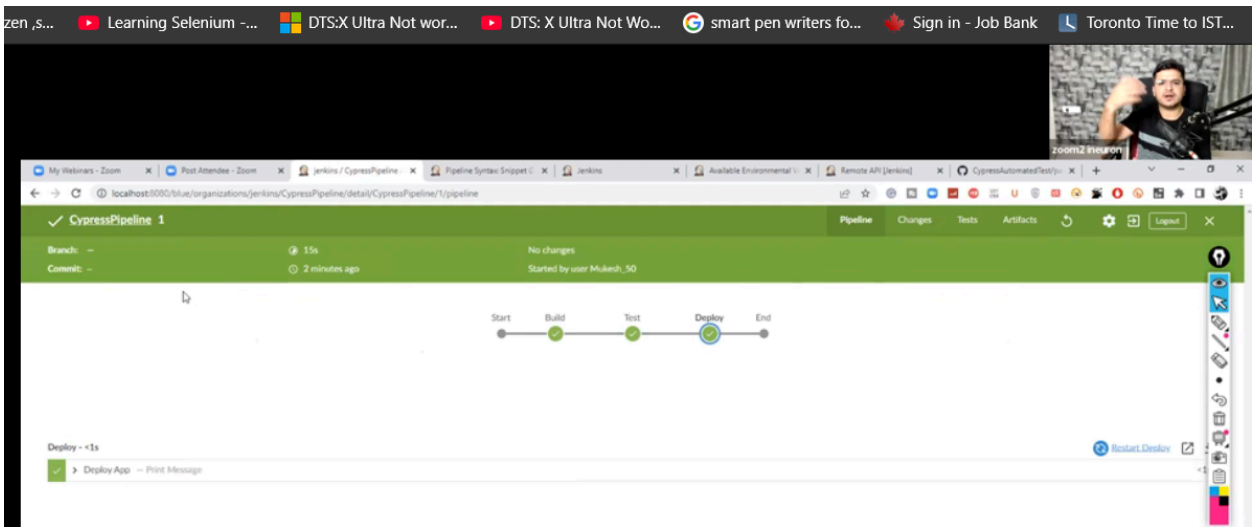



Click save. Click apply.
Build now.

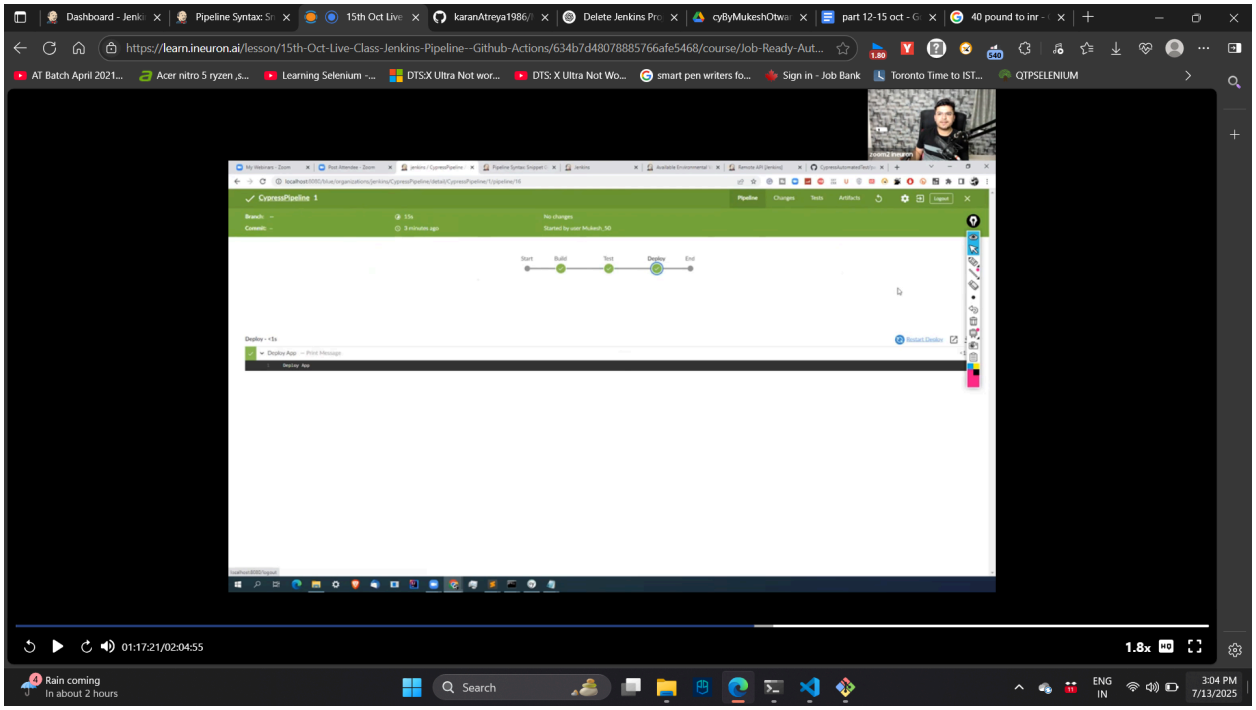
Blue ocean-




Click open blue ocean. It will give nice graphical view of the pipeline. Blue ocean is plugin we have to install.



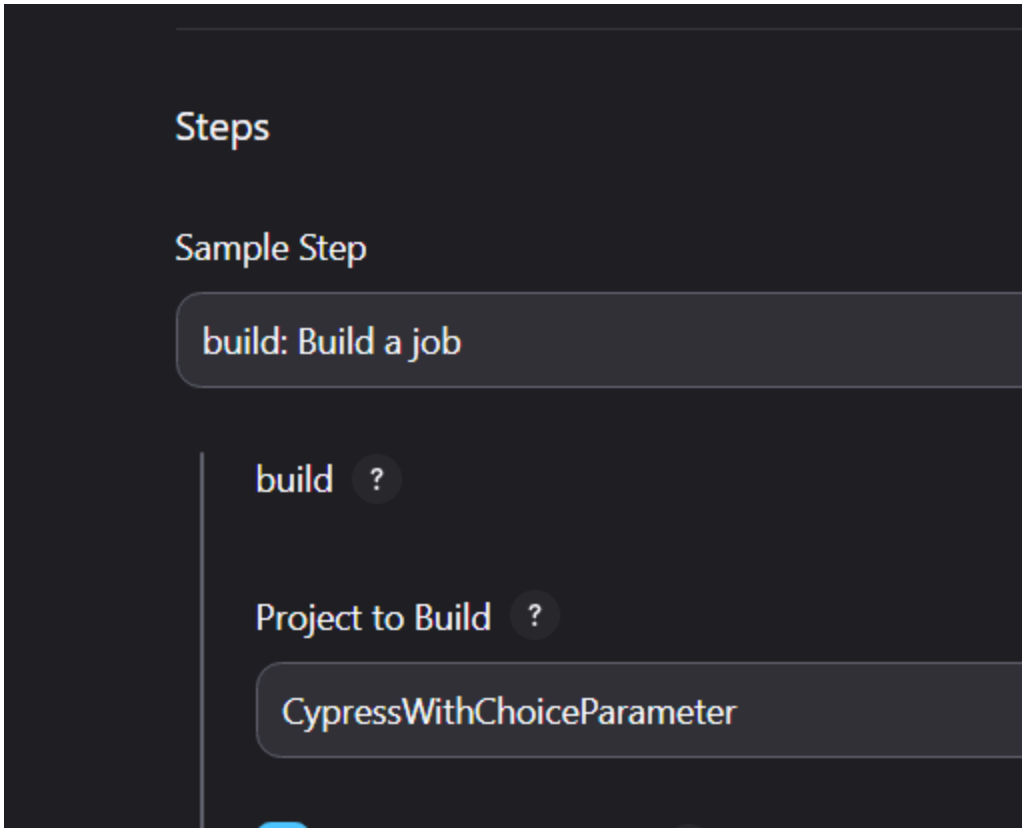

Ocd-

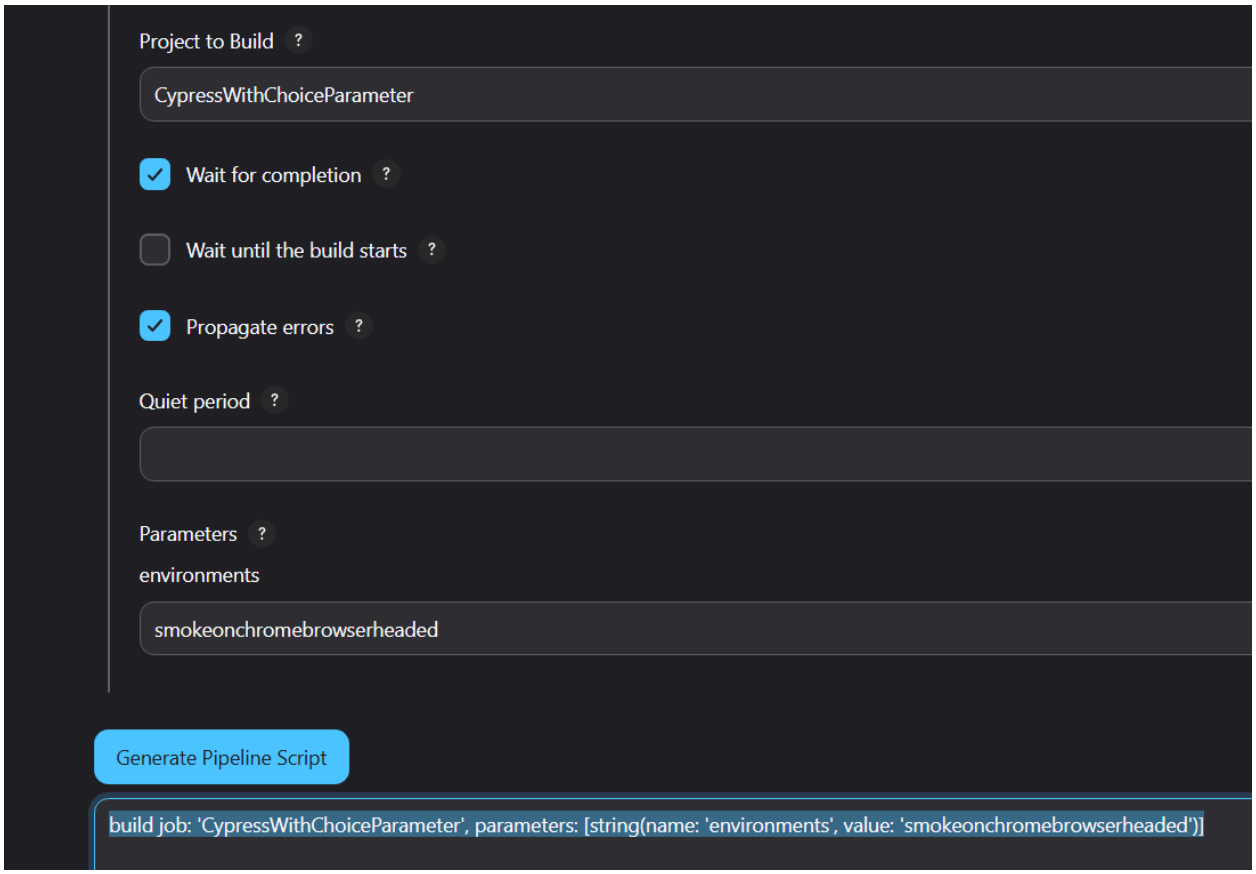



Trying to build sample jobs-
Here we are adding our jenkins jobs itself to the pipeline. You pass the job name.


Another pipeline to run multiple jobs –


How to use pipeline script generator-
We want to build another jenkins pipeline job.


Steps
Sample Step
build: Build a job
build
Project to Build
CypressWithChoiceParameter

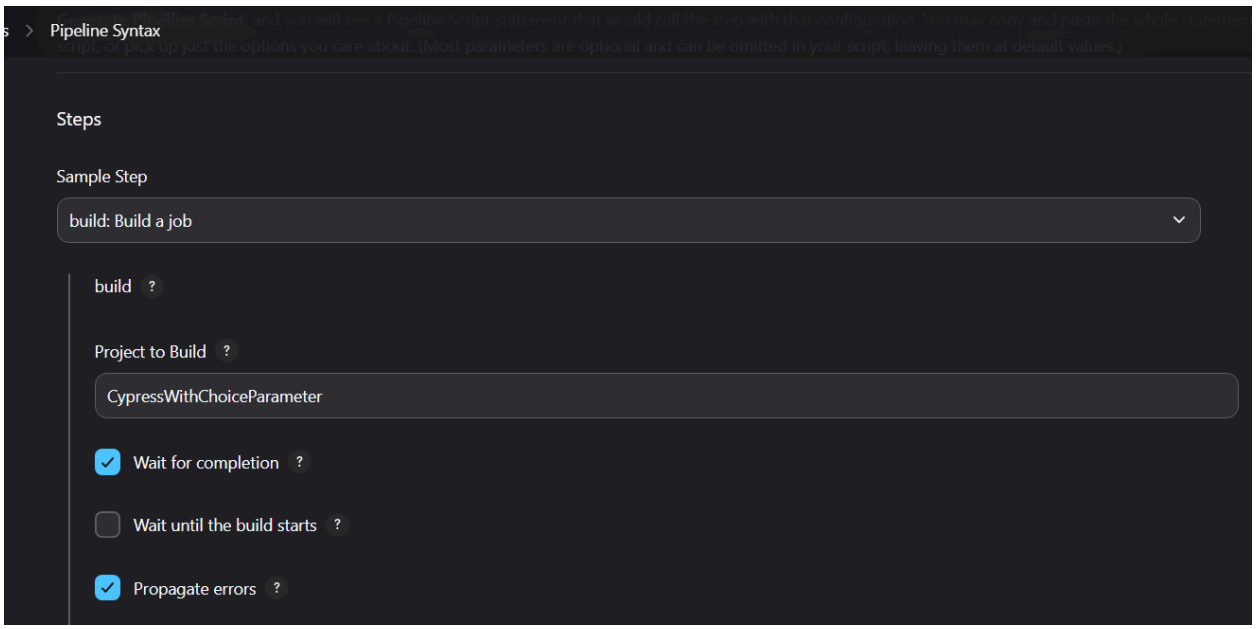

Project to Build
CypressWithChoiceParameter
Wait for completion
Wait until the build starts
Propagate errors
Quiet period
Parameters
environments
smokeonchromebrowserheaded
Generate Pipeline Script
build job: 'CypressWithChoiceParameter', parameters: [string(name: 'environments', value: 'smokeonchromebrowserheaded')]

Sample jobs created with pipeline help-

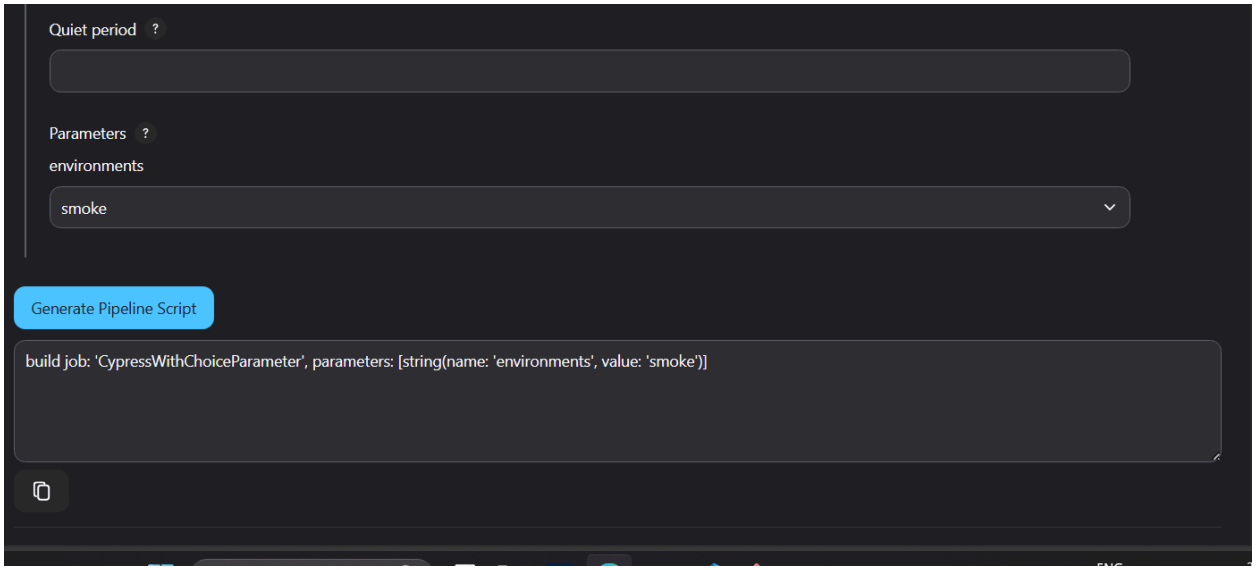
```
pipeline {
    agent any

    stages {
        stage('smoke') {
            steps {
                build job: 'CypressWithChoiceParameter', parameters: [string(name: 'environments', value: 'smokeonchromebrowserheaded')]
            }
        }

         stage('regression') {
            steps {
                build 'CypressTesting'
            }
        }

         stage('e2e') {
            steps {
                build 'CypressWithSSHCheck'
            }
        }
    }
}
```



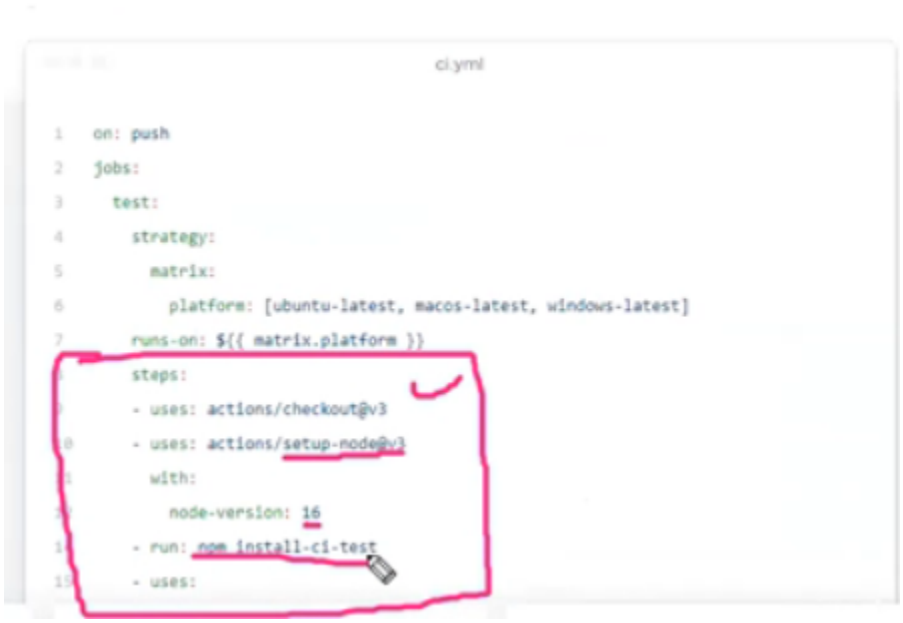
If you want to run the parameters like the one we selected from drop down–
Go to generator.
Give the job name which requires parameter.



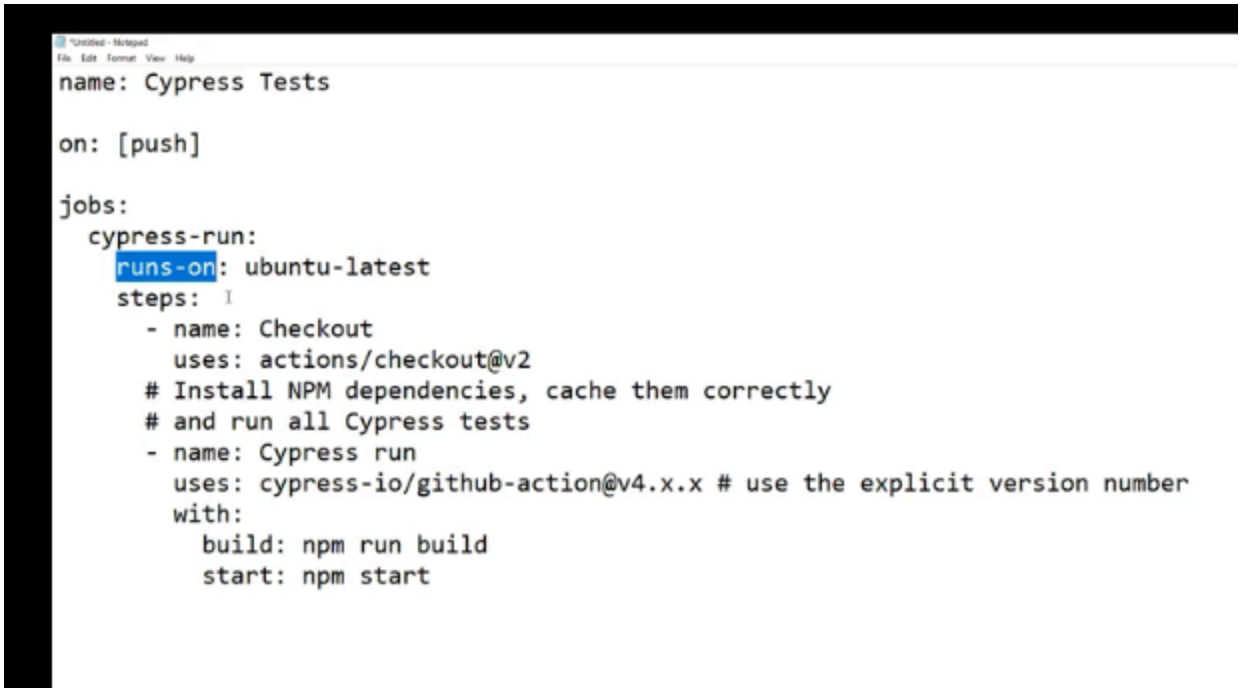

You can select the environment where you want to run. Click generate script and done.




Sample yaml file-




Note-
Cypress does not have parallel runs like pw.
Pay and use or take github actions help.



```
name: Cypress Tests

on: [push]

jobs:
  cypress-run:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout
        uses: actions/checkout@v2
      # Install NPM dependencies, cache them correctly
      # and run all Cypress tests
      - name: Cypress run
        uses: cypress-io/github-action@v4.x.x # use the explicit version number
        with:
          build: npm run build
          start: npm start
```

Name - we give.
On - event.
Jobs - different jobs.
Runs on - where to run the job.
Steps- what individual task to run.
Name can be anything.
Checkout - takes code from github and puts in ubuntu.
**With** mainly for developers, to build and start the application.