

Submitted by:

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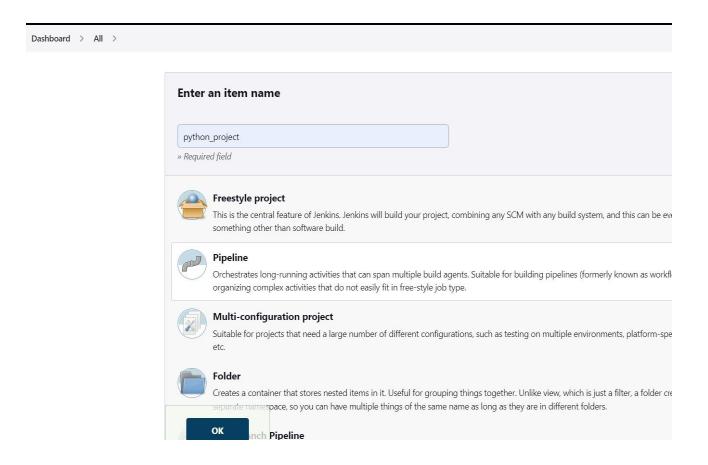
Submitted to:

Mr. Omkarendra Tiwari

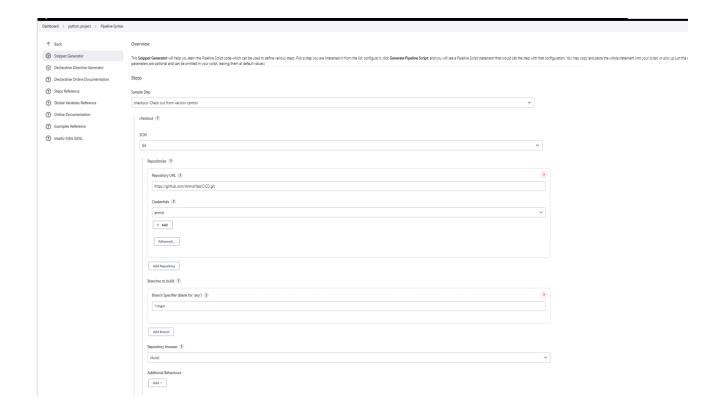
CI - CD Lab

Pipeline Using Jenkins

Step 1: create a pipeline project

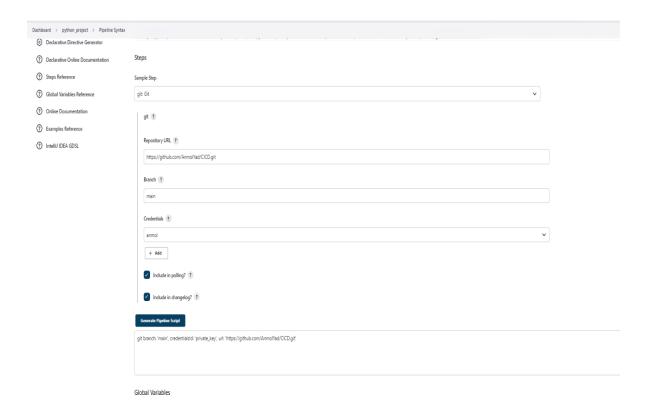


Step 2: Add python code in the git repo then give its URL, credentials to connect with Jenkins.



Step3: Generate pipeline script





Script ?

```
1 * pipeline {
                                                                                                                                               Hello World
  2
           agent any
   4 *
           stages {
               stage('Checkout') {
   5 *
                   steps { | checkout([$class: 'GitSCM', branches: [[name: '*/main']], extensions: [], userRemoteConfigs: [[credentialsId: 'private_key', url: 'http
   6*
   8
   9
               stage('Build') {
    steps {
  10 *
  11 *
                        git branch: 'main', credentialsId: 'private_key', url: 'https://github.com/AnmolYad/CICD.git' bat 'python Calculation.py'
  12
  13
  14
  15
  16
17
18 }
  19
```

//python code

```
ያ main → CICD / Calculation.py / <> Jump to →
AnmolYad Update Calculation.py ...
Aয় 1 contributor
18 lines (14 sloc) 339 Bytes
  1 # Function for nth Fibonacci number
  3 def Fibonacci(n):
        if n<= 0:
  4
            print("Incorrect input")
      # First Fibonacci number is 0
elif n == 1:
            return 0
  8
       # Second Fibonacci number is 1
 10 elif n == 2:
 11
           return 1
 12
       else:
            return Fibonacci(n-1)+Fibonacci(n-2)
 13
 15 # Driver Program
 16
 17 print(Fibonacci(10))
```

//build

```
[Pipeline] stage
 [Pipeline] { (Build)
[Pipeline] git
The recommended git tool is: NONE
using credential private_key
 > git rev-parse --resolve-git-dir C:\Users\anmol\.jenkins\workspace\python_project\.git # timeout=10
 Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/AnmolYad/CICD.git # timeout=10
Fetching upstream changes from \verb|https://github.com/AnmolYad/CICD.git| \\
 > git --version # timeout=10
 > git --version # 'git version 2.36.1.windows.1'
using GIT_SSH to set credentials
Verifying host key using known hosts file, will automatically accept unseen keys
 > git fetch --tags --force --progress -- https://github.com/AnmolYad/CICD.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking \ out \ Revision \ 0994e958bf5aa8e8ee4bfd616b1f496f44b7b54b \ (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
  > git checkout -f 0994e958bf5aa8e8ee4bfd616b1f496f44b7b54b # timeout=10
 > git branch -a -v --no-abbrev # timeout=10
 > git branch -D main # timeout=10
 > git checkout -b main 0994e958bf5aa8e8ee4bfd616b1f496f44b7b54b # timeout=10
Commit message: "Update Calculation.py"
 [Pipeline] bat
C:\Users\anmol\.jenkins\workspace\python_project>python Calculation.py
 [Pipeline] }
 [Pipeline] // stage
 [Pipeline] }
 [Pipeline] // node
 [Pipeline] End of Pipeline
Finished: SUCCESS
```

//add testing stage and build again

```
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/AnmolYad/CICD.git # timeout=10
Fetching upstream changes from https://github.com/AnmolYad/CICD.git
> git --version # timeout=10
> git --version # 'git version 2.36.1.windows.1'
using GIT_SSH to set credentials
Verifying host key using known hosts file, will automatically accept unseen keys
> git fetch --tags --force --progress -- https://github.com/AnmolYad/CICD.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking \ out \ Revision \ 0994e958bf5aa8e8ee4bfd616b1f496f44b7b54b \ (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 0994e958bf5aa8e8ee4bfd616b1f496f44b7b54b # timeout=10
 > git branch -a -v --no-abbrev # timeout=10
> git branch -D main # timeout=10
> git checkout -b main 0994e958bf5aa8e8ee4bfd616b1f496f44b7b54b # timeout=10
Commit message: "Update Calculation.py"
[Pipeline] bat
C:\Users\anmol\.jenkins\workspace\python_project>python Calculation.py
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] echo
This job is Tested now
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```