

DevOps Practical

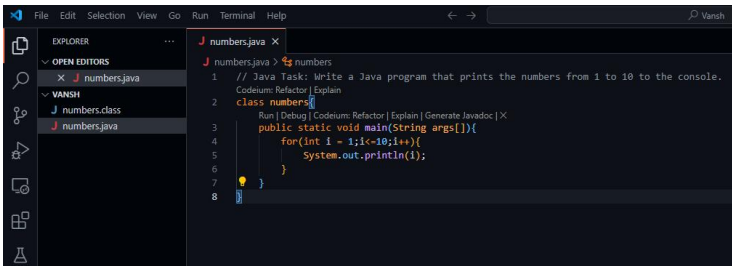
Vansh Nilesh Badjate (AIML)

2124UMLM2022

Set 3

Java Task: Write a Java program that prints the numbers from 1 to 10 to the console.

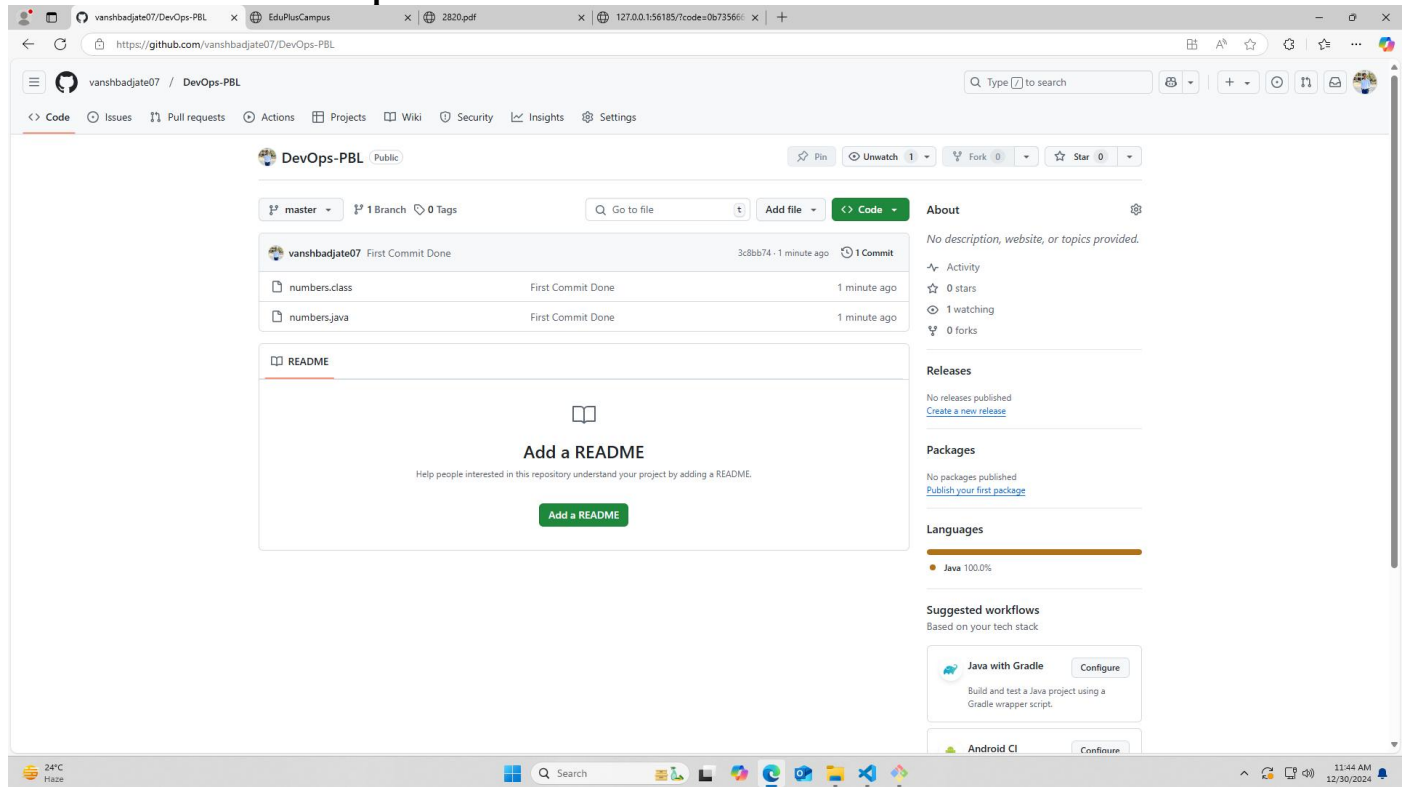
```
class numbers{  
    public static void main(String args[]) {  
        System.out.println("Printing 1 to 10");  
        for(int i = 1;i<=10;i++){  
            System.out.println(i);  
        }  
    }  
}
```



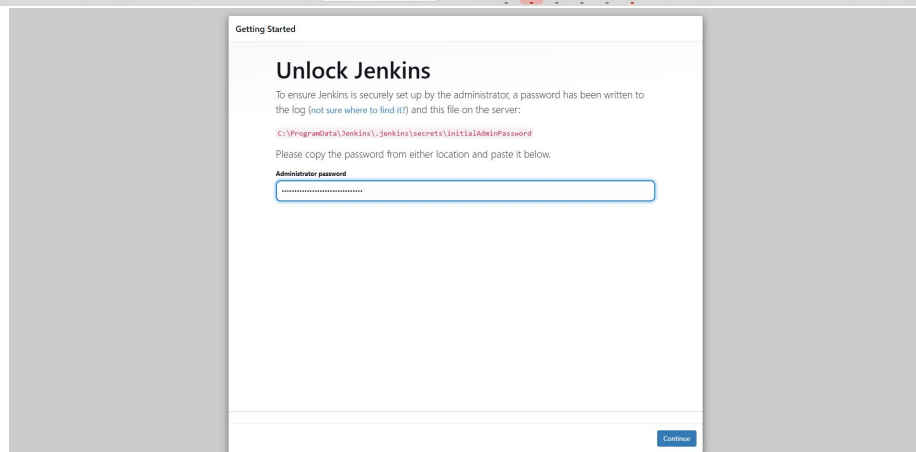
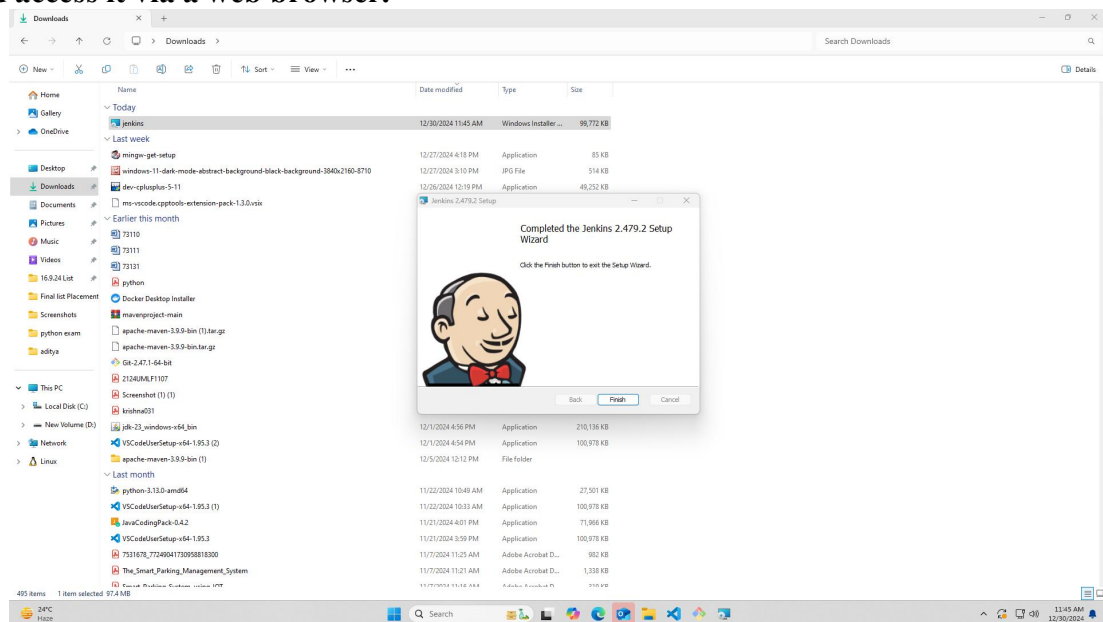
Steps: 1. Setup a Git Repository: - Create a simple Java application based on the above task. - Initialize a Git repository and push the code to GitHub or a local Git repository

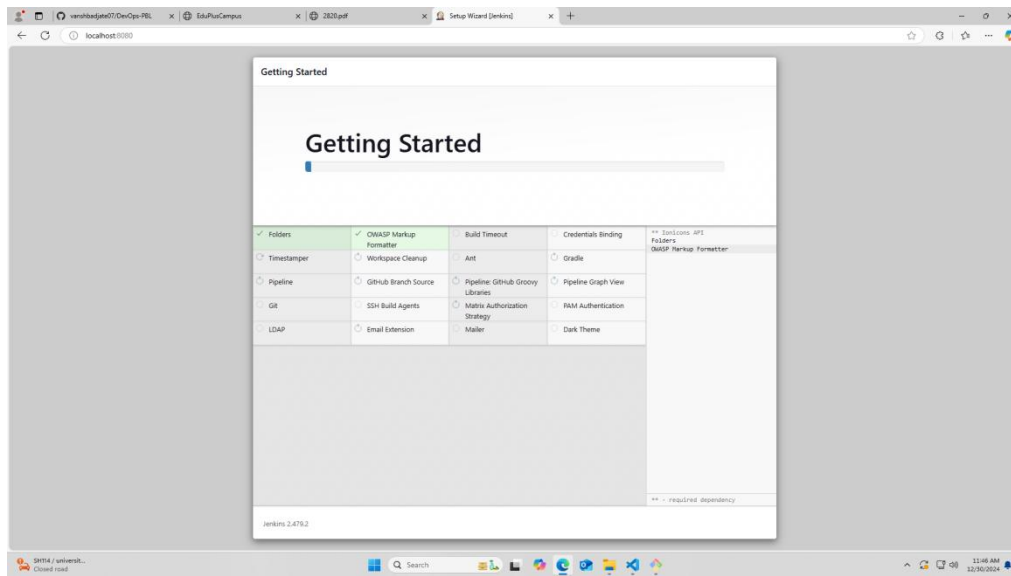
```
MINGW64/c/Users/admin/Desktop/Vansh  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh  
$ git init  
Initialized empty Git repository in C:/Users/admin/Desktop/Vansh/.git/  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ git add .  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ git commit -m "First Commit Done"  
Author identity unknown  
  
*** Please tell me who you are.  
  
Run  
  
    git config --global user.email "you@example.com"  
    git config --global user.name "Your Name"  
  
to set your account's default identity.  
Omit --global to set the identity only in this repository.  
  
fatal: unable to auto-detect email address (got 'admin@DESKTOP-8NES015.(none)')  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ git config --global user.email "badjatevansh1008@gmail.com"  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ git config --global user.name "Vansh"  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ git commit -m "First Commit Done"  
[master (root-commit) 3c8bb74] First Commit Done  
2 files changed, 8 insertions(+)  
create mode 100644 numbers.class  
create mode 100644 numbers.java  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ git remote add origin https://github.com/vanshbadjate07/DevOps-PBL.git  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ git push -u origin main  
error: src refspec main does not match any  
error: failed to push some refs to 'https://github.com/vanshbadjate07/DevOps-PBL.git'  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ git push -u origin master  
info: please complete authentication in your browser...  
Enumerating objects: 4, done.  
Counting objects: 100% (4/4), done.  
Delta compression using up to 28 threads  
Compressing objects: 100% (4/4), done.  
Writing objects: 100% (4/4), 739 bytes | 739.00 KiB/s, done.  
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)  
To https://github.com/vanshbadjate07/DevOps-PBL.git  
* [new branch]      master -> master  
branch 'master' set up to track 'origin/master'.  
  
admin@DESKTOP-8NES015 MINGW64 ~/Desktop/Vansh (master)  
$ |
```

Code Pushed to Github Repo:-



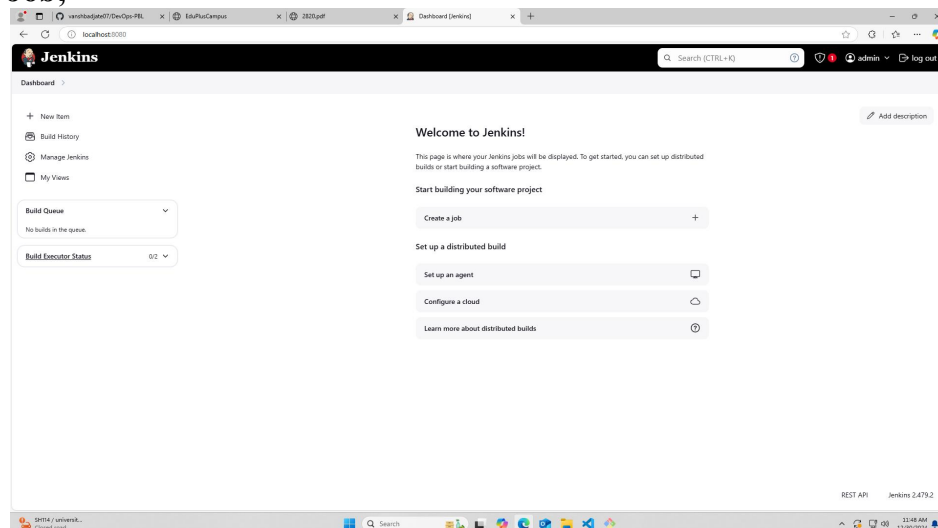
Step: 2. Install Jenkins: - Download and install Jenkins on the local machine. - Start the Jenkins server and access it via a web browser.



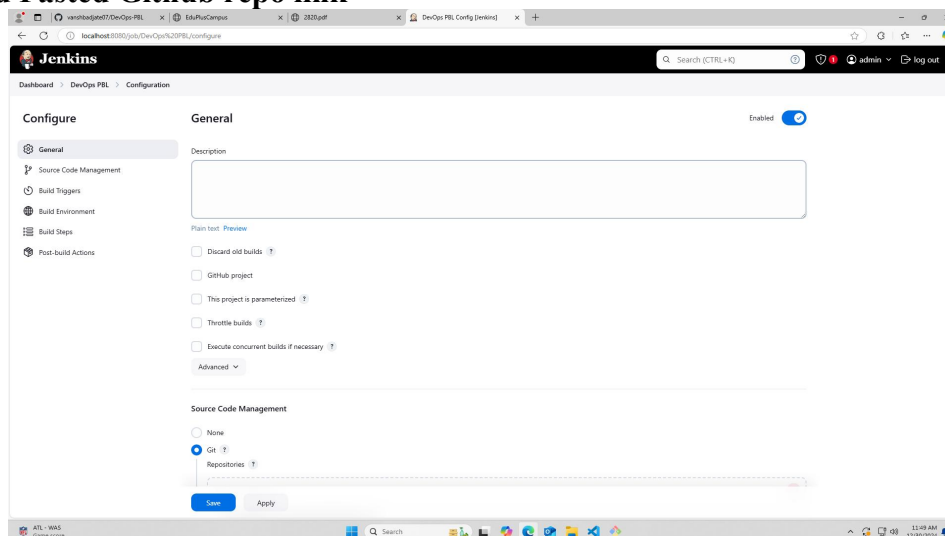


Step 3. Create a Jenkins Job: - Configure Jenkins to pull the code from the Git repository. - Add build steps to compile and test the code (e.g., javac for Java).

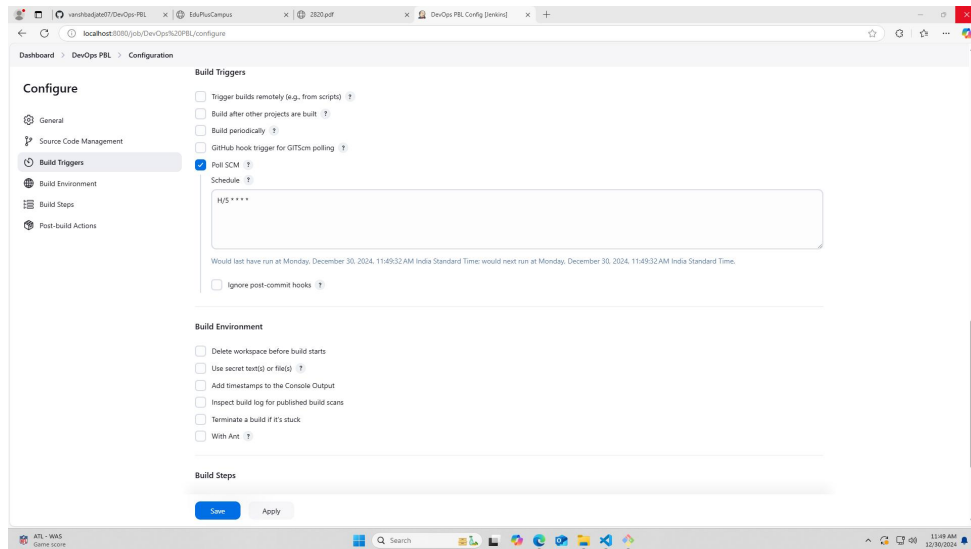
Created jenkins Job:-



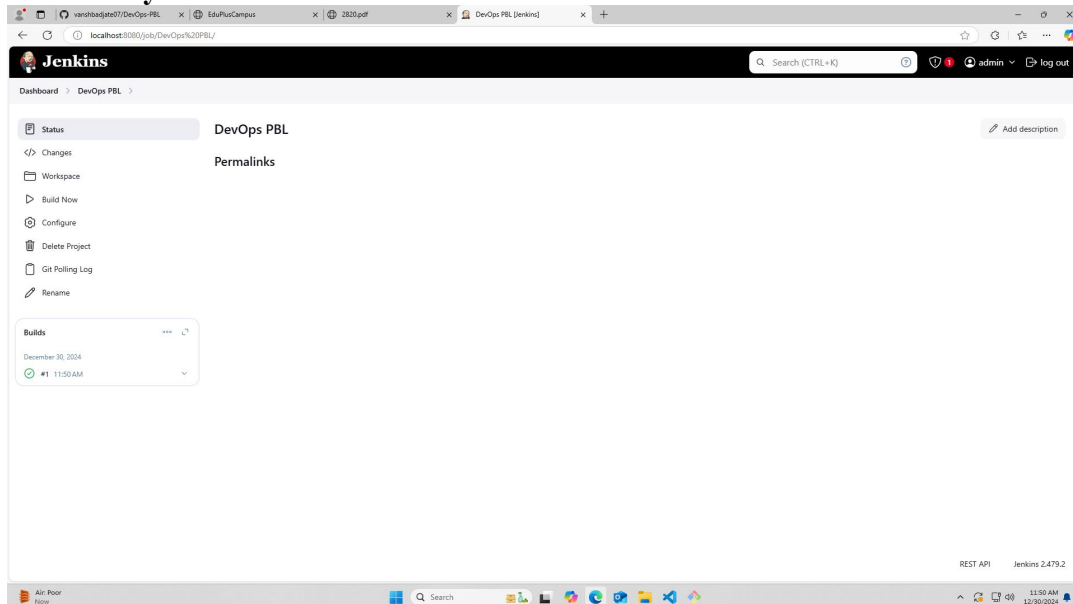
Selected Git and Pasted Github repo link



Setup Schedule:-

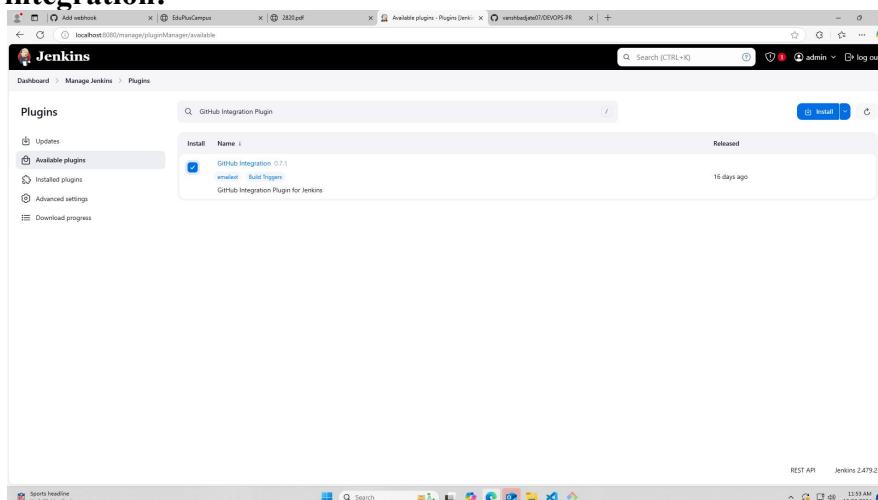


Code Run Successfully:-

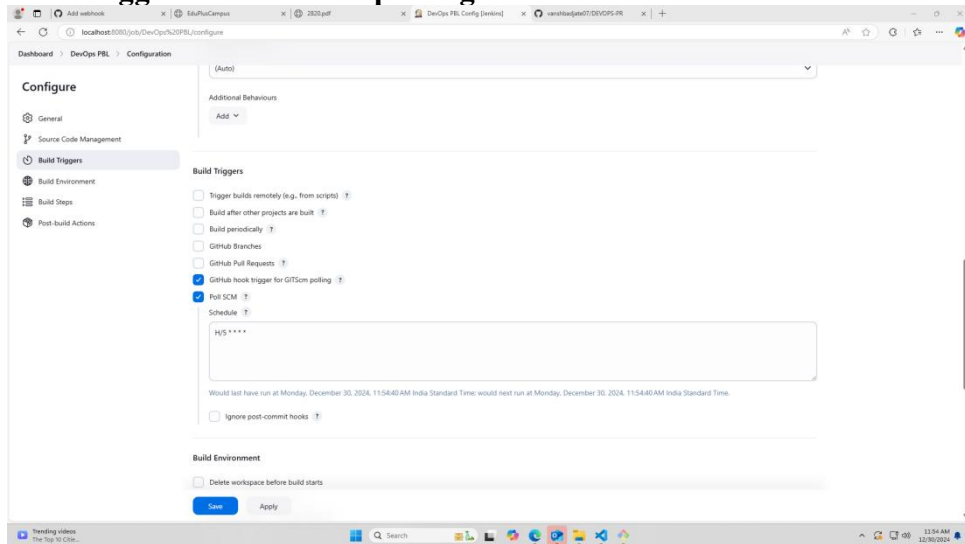


Step 4. Automate the Build: - Set up a "trigger" in Jenkins to automatically start a build whenever changes are pushed to the Git repository

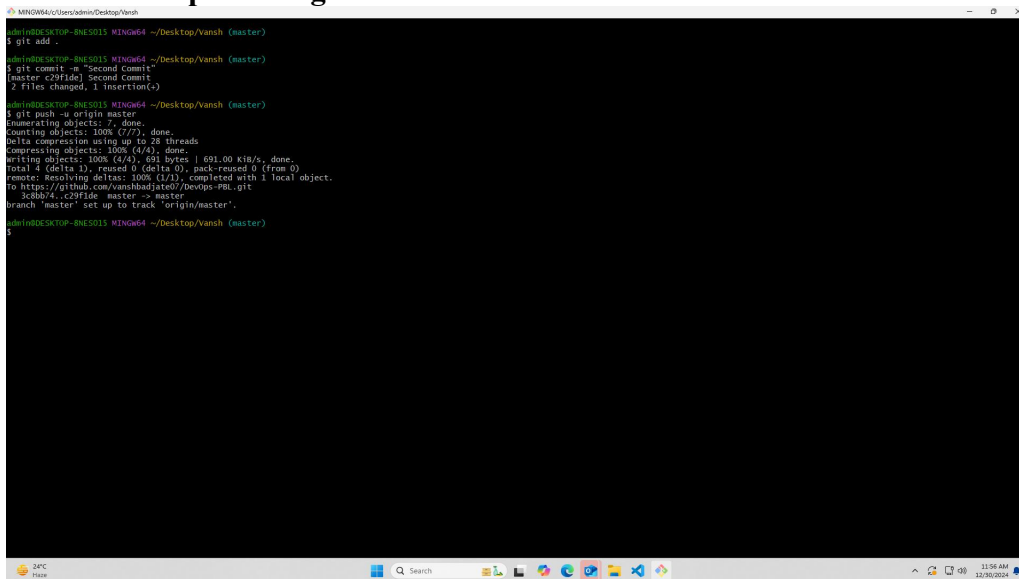
Download Github integration:-



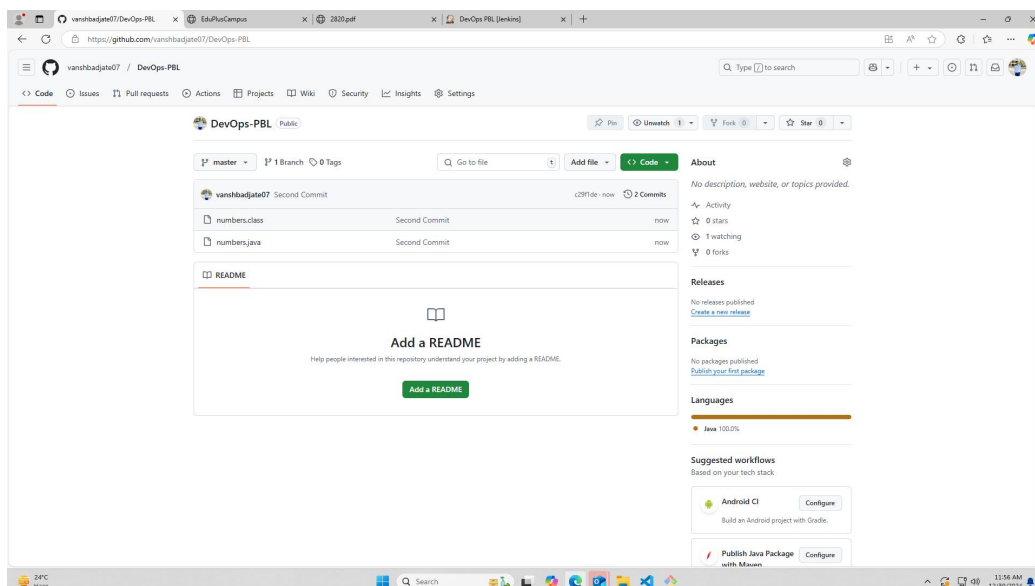
Enable Github Hook trigger for HITSCM pooling



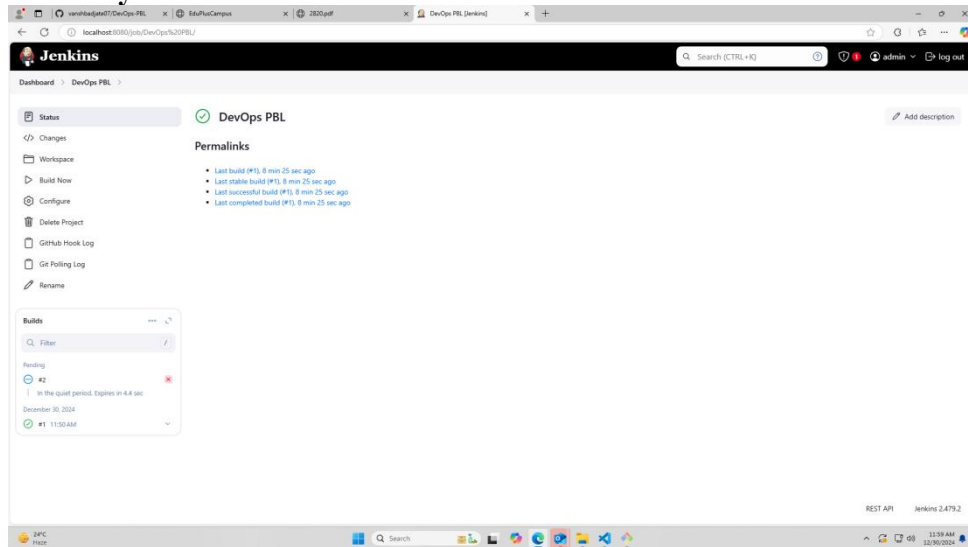
Made changes in code and pushed again



Added Code in github:-

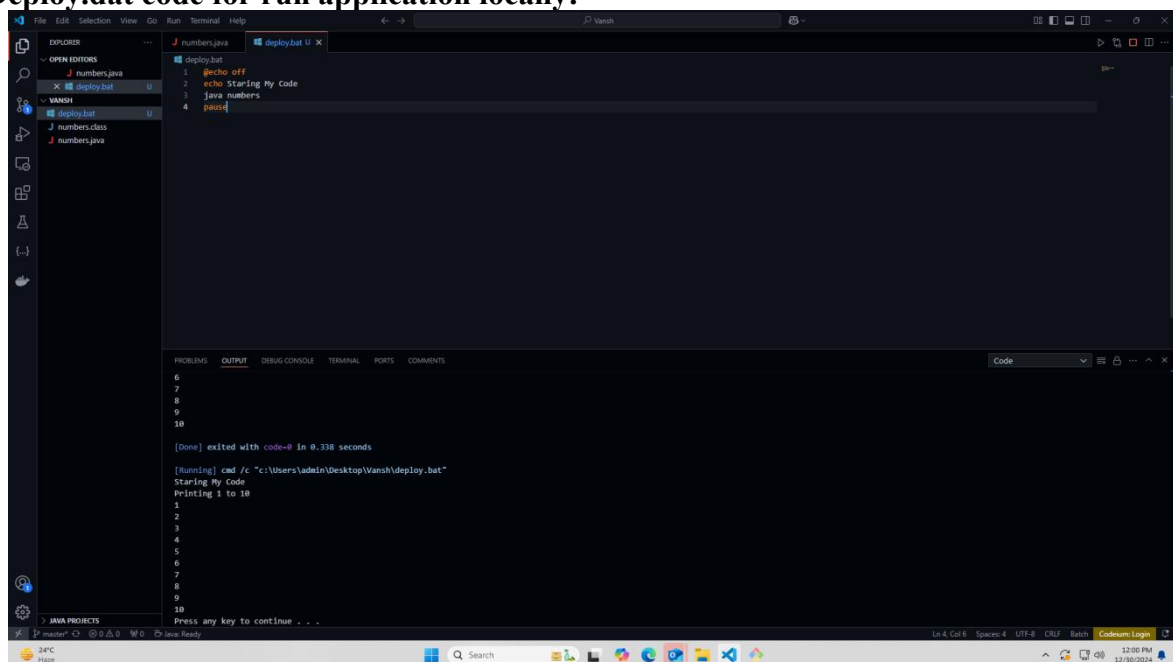


Code Run Automatically:-



5. Deploy the Application Locally: - Write a small script to run the application on the local machine. - Add this script as a post-build step in Jenkins

Write Deploy.bat code for run application locally:-



6. Test the Pipeline: - Push changes to the Git repository and observe how Jenkins automatically builds and deploys the application

Made changes into code and pushed again and wait for auto run code

