

Assignment No 5

AIM: To build Java program using Jenkins.

LO1: To understand the fundamentals of DevOps engineering and be fully proficient with DevOps terminologies, concepts, benefits, and deployment options to meet your business requirements.

LO3: To understand the importance of Jenkins to Build and deploy Software Applications on server environment.

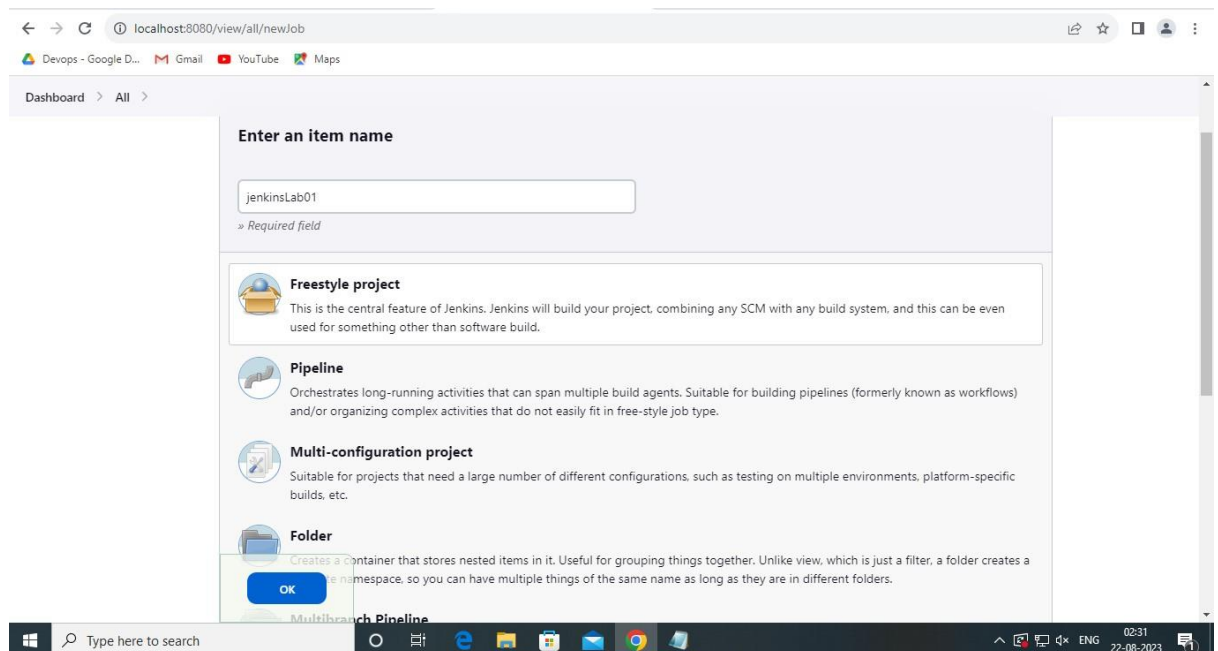
THEORY:

1. Create java Program

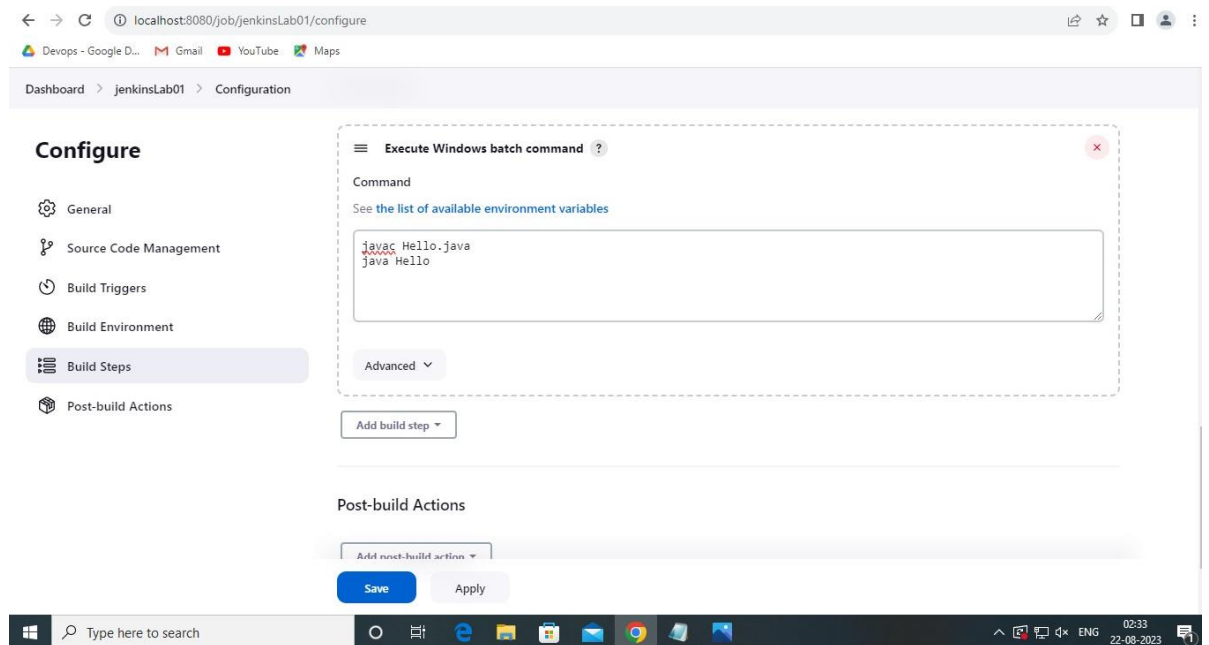
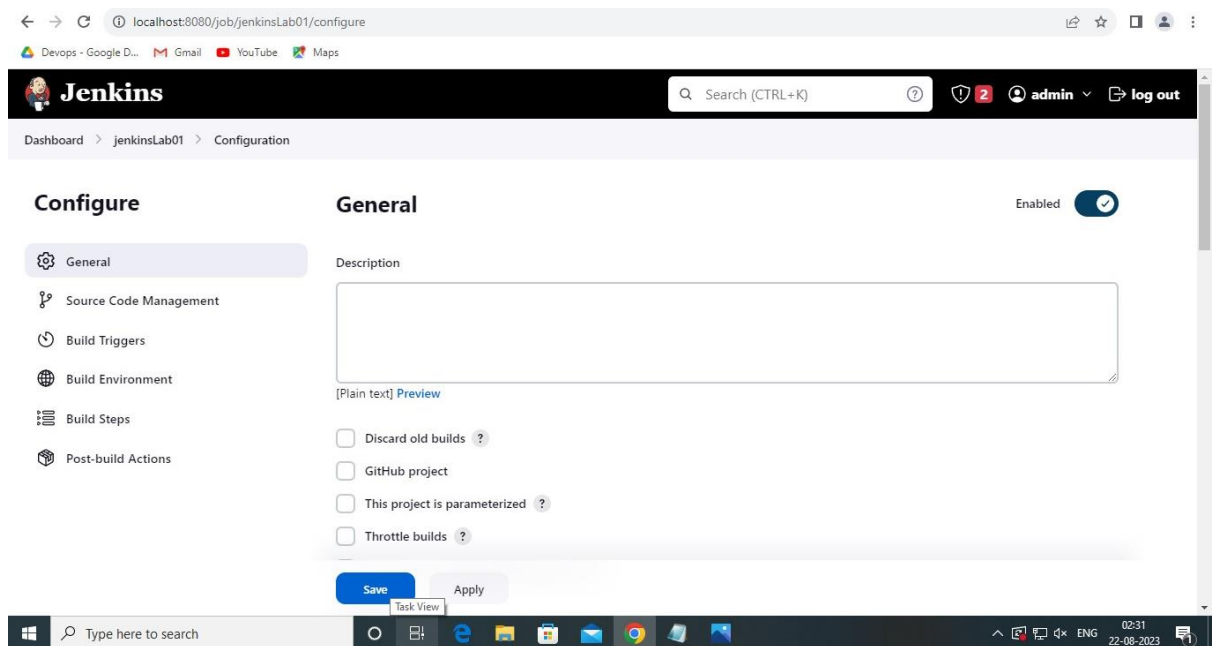
```
class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

2. Create Jenkins job to run the program

In this select new item,



Execute windows batch command

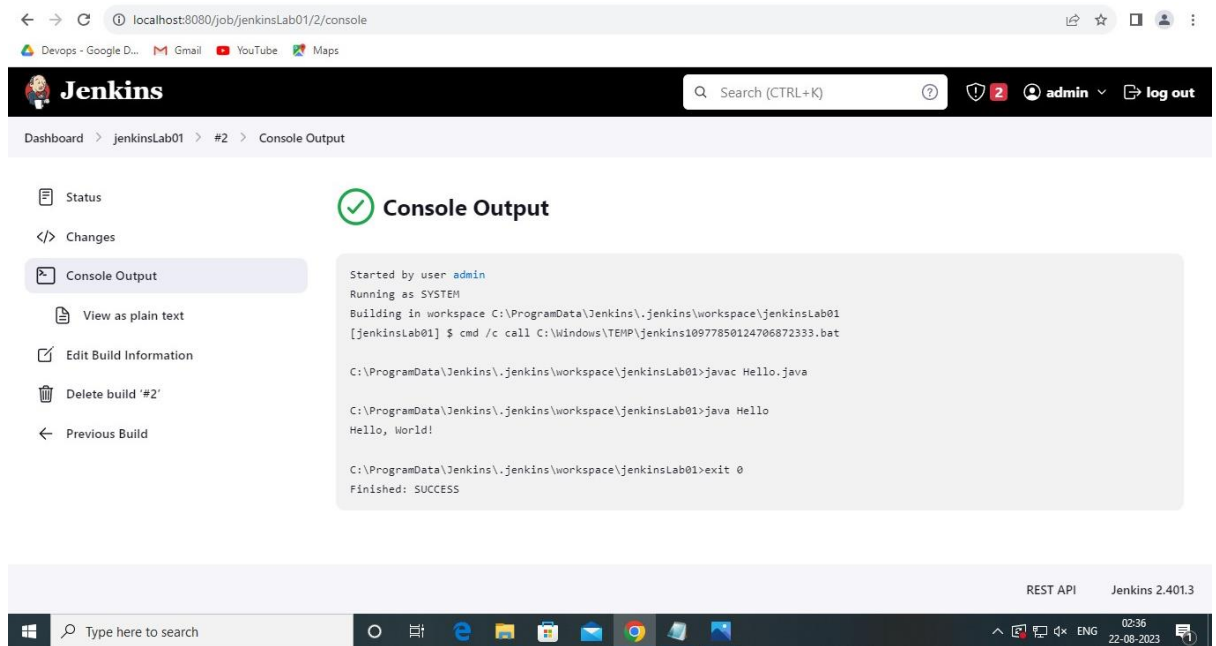


The screenshot shows the Jenkins Configuration page for a job named 'jenkinsLab01'. The browser address bar indicates the URL is 'localhost:8080/job/jenkinsLab01/configure'. The left sidebar contains a menu with options: General, Source Code Management, Build Triggers, Build Environment, Build Steps (highlighted), and Post-build Actions. The main content area is titled 'Configure' and features a text box with the following code:

```
javac Hello.java
java Hello
```

Below the code box is an 'Advanced' dropdown menu and an 'Add build step' button. Under the 'Post-build Actions' section, there is an 'Add post-build action' button. At the bottom of the configuration area are 'Save' and 'Apply' buttons. The bottom status bar shows 'REST API' and 'Jenkins 2.401.3'.

The screenshot shows the Jenkins Project Overview page for 'jenkinsLab01'. The browser address bar shows 'localhost:8080/job/jenkinsLab01/'. The top navigation bar includes the Jenkins logo, a search bar, and user information for 'admin' with a 'log out' button. The left sidebar lists actions: Status, Changes, Workspace, Build Now (highlighted), Configure, Delete Project, and Rename. The main content area displays 'Project jenkinsLab01' with the description 'Jenkins lab 01 hello world'. It also includes 'Permalinks' and a 'Build History' section. The 'Build History' section shows a list of builds, with the most recent one being 'Aug 22, 2023, 2:36 AM' with a status of 'Success' and a link to 'localhost:8080/job/jenkinsLab01/build?delay=0sec'.



CONCLUSION:

Hence, we successfully built Java programs using Jenkins.