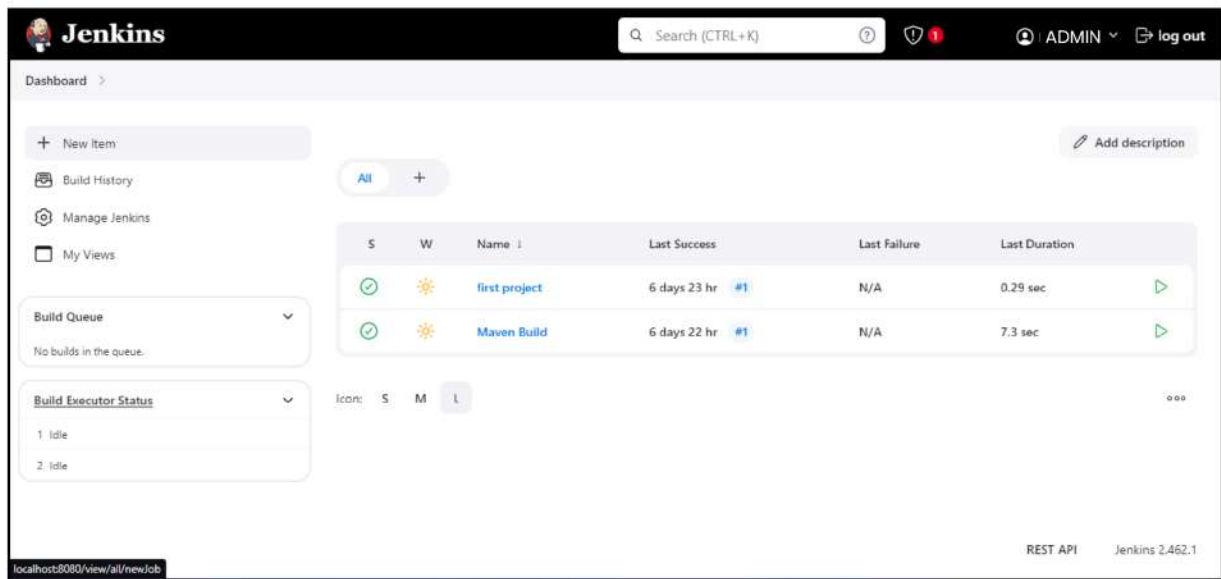


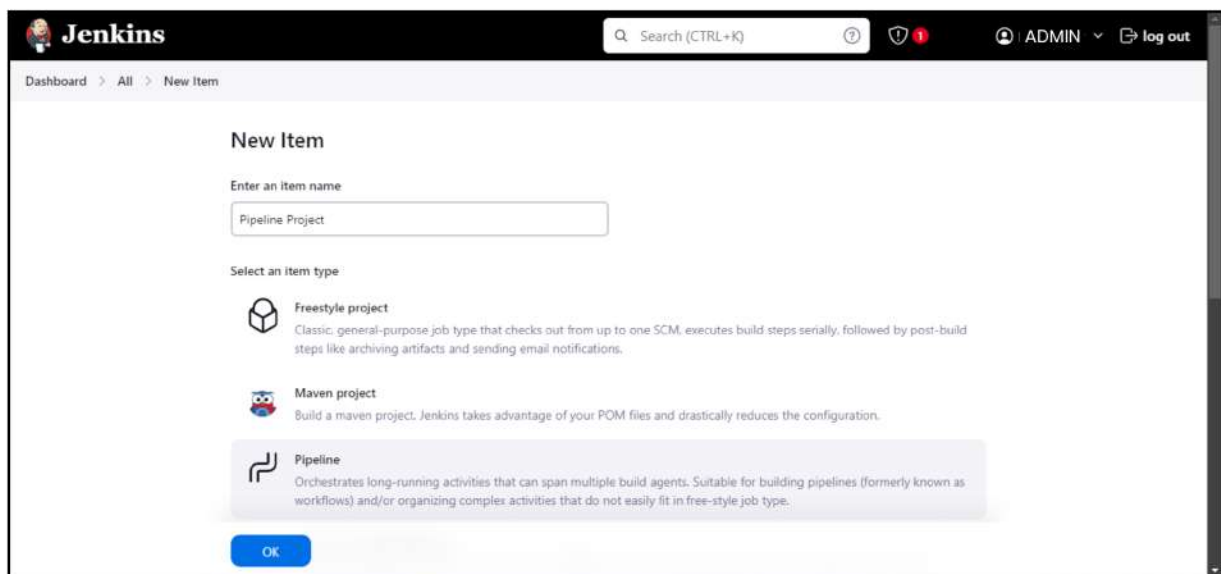
Experiment No. 5

Procedure :

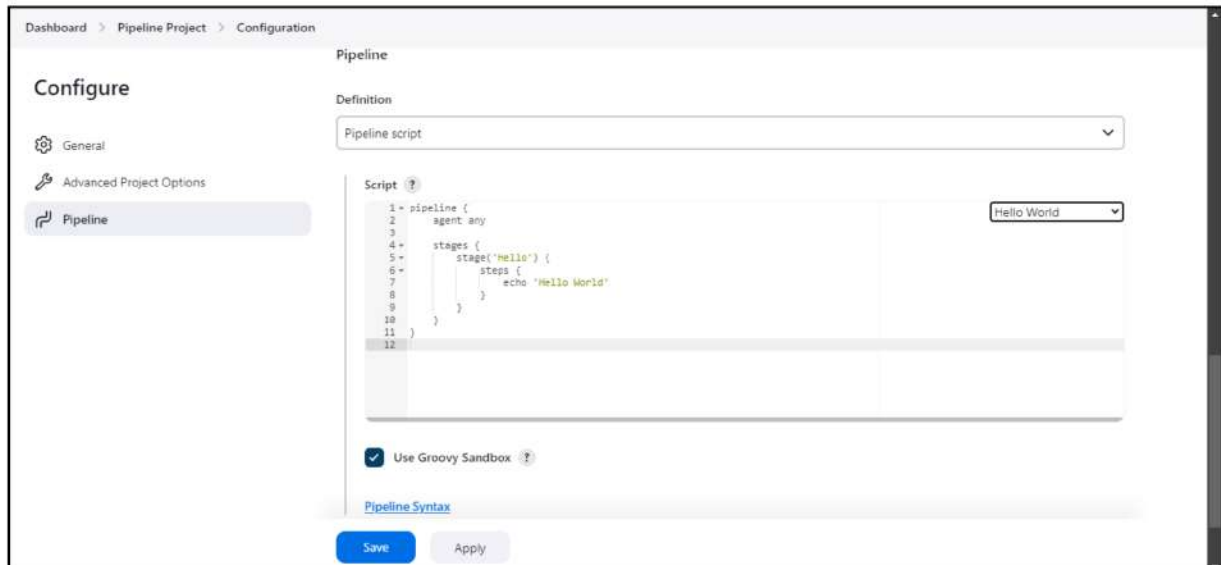
Step 1 : Visit Jenkins dashboard.



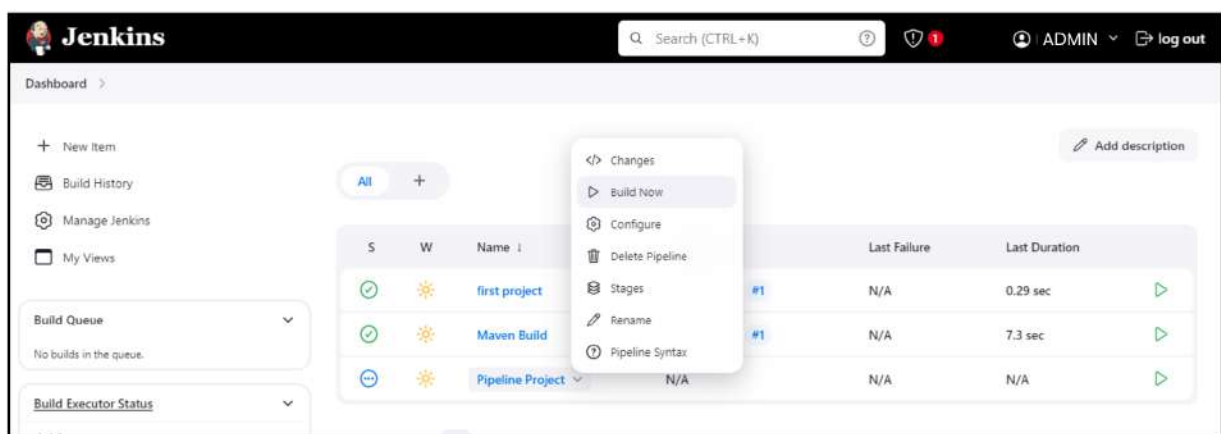
Step 2 : Create new item, enter item name and select pipeline project.



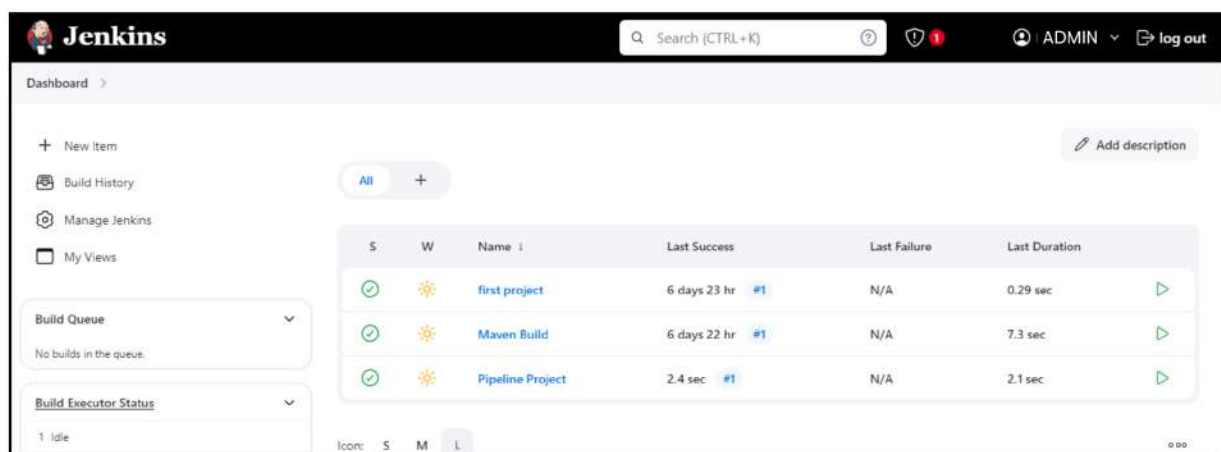
Step 3 : In project configuration write the pipeline script, apply and save.



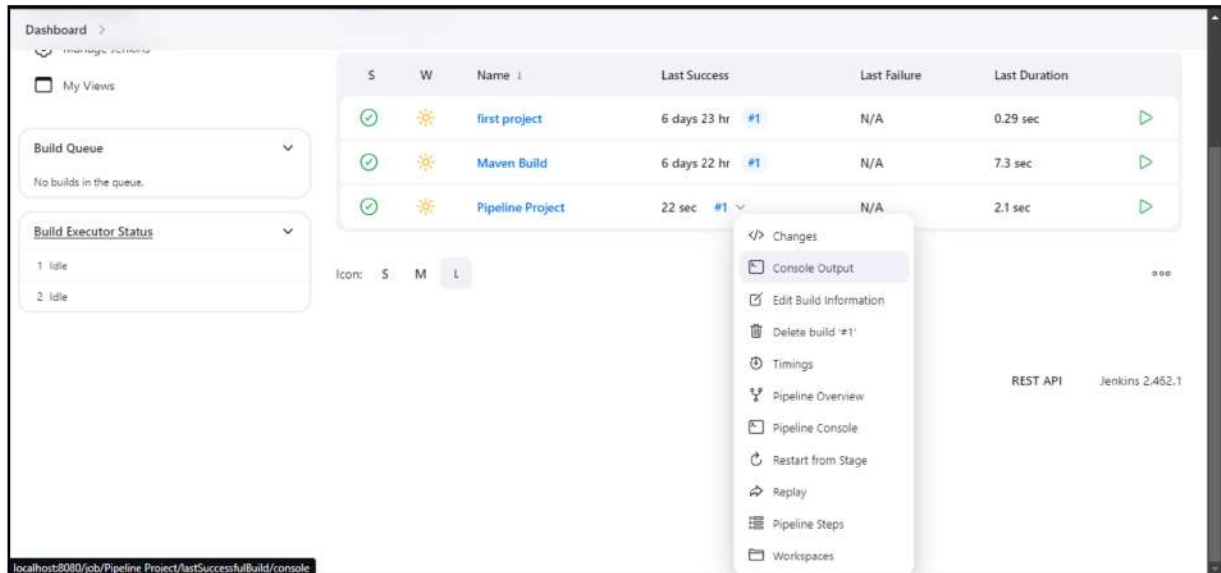
Step 4 : Click build now.



Step 5 : Build is successful.



Step 6 : Click console output.

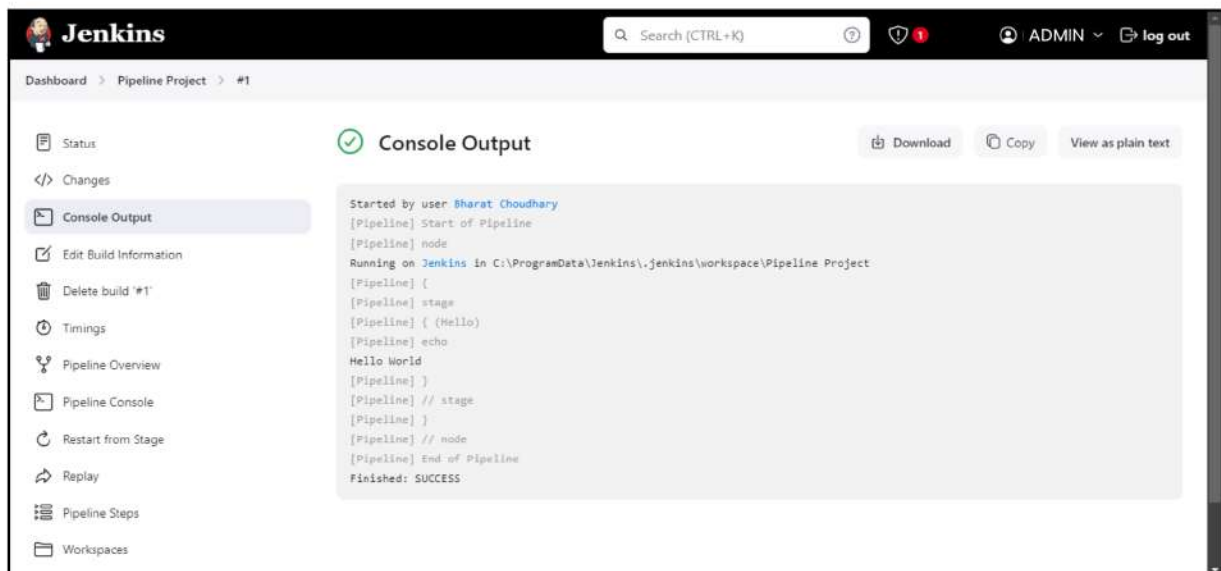


The screenshot shows the Jenkins Dashboard. On the left, there are sections for 'My Views', 'Build Queue' (showing 'No builds in the queue'), and 'Build Executor Status' (showing two idle executors). The main area displays a table of builds:

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	first project	6 days 23 hr #1	N/A	0.29 sec
✓	☀	Maven Build	6 days 22 hr #1	N/A	7.3 sec
✓	☀	Pipeline Project	22 sec #1	N/A	2.1 sec

A context menu is open for the 'Pipeline Project' build, showing options: Changes, Console Output, Edit Build Information, Delete build #1, Timings, Pipeline Overview, Pipeline Console, Restart from Stage, Replay, Pipeline Steps, and Workspaces. The 'Console Output' option is highlighted. The bottom status bar shows 'localhost8080/job/Pipeline Project/lastSuccessfulBuild/console'.

Step 7 : Console output is visible.

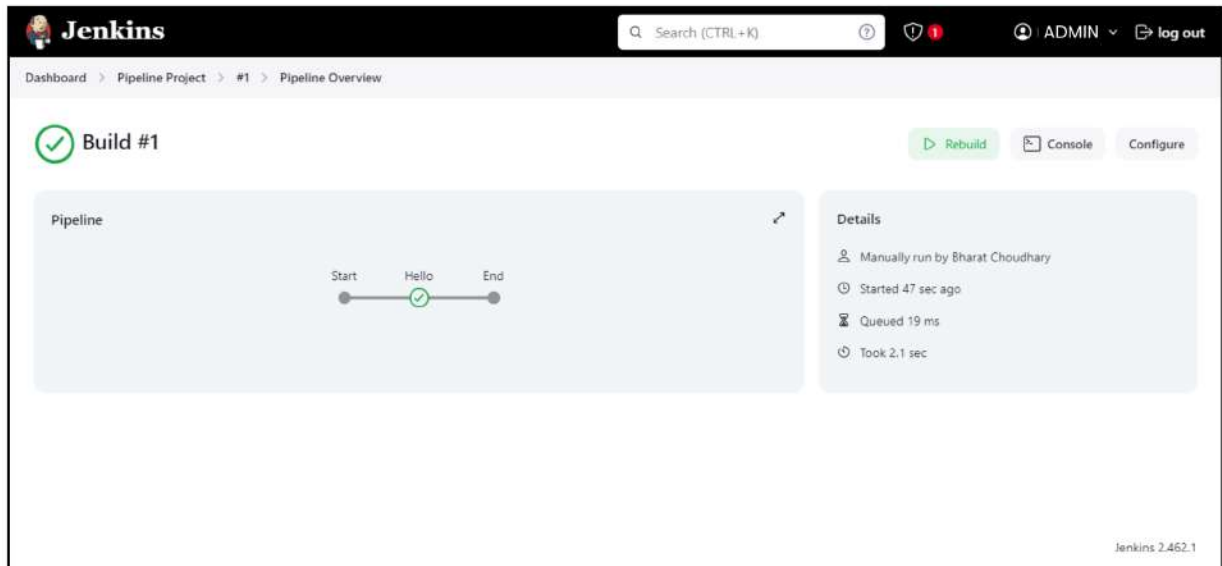


The screenshot shows the Jenkins 'Console Output' page for the 'Pipeline Project' build #1. The left sidebar contains a list of actions: Status, Changes, Console Output (selected), Edit Build Information, Delete build #1, Timings, Pipeline Overview, Pipeline Console, Restart from Stage, Replay, Pipeline Steps, and Workspaces. The main area displays the console output:

```
Started by user Bharat Choudhary
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\jenkins\workspace\Pipeline Project
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Hello)
[Pipeline] echo
Hello World
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

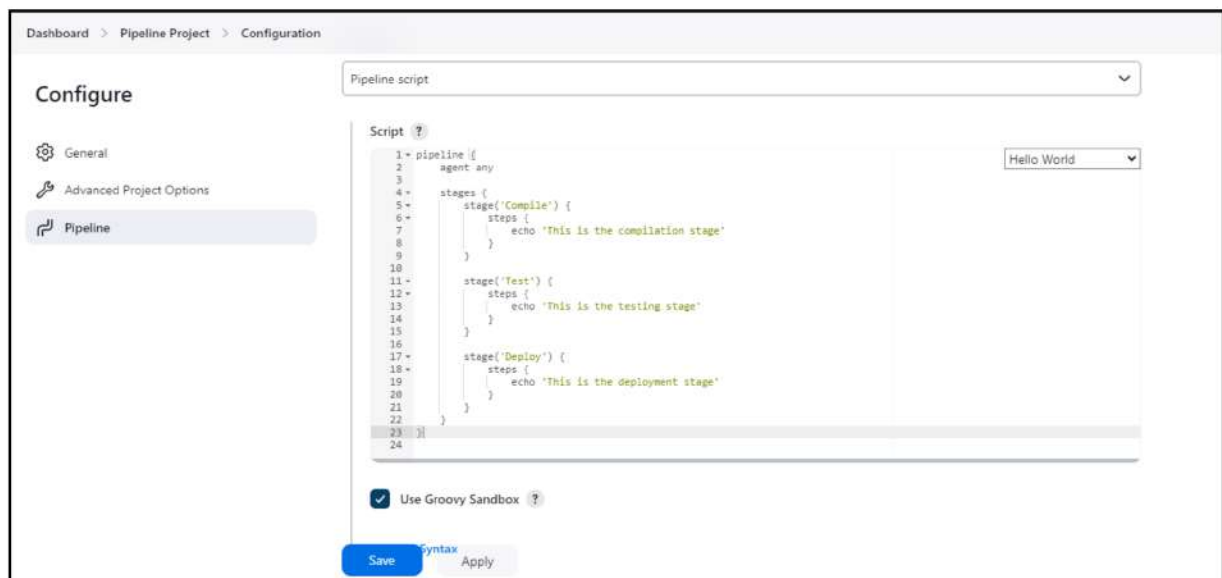
At the top right of the console output area, there are buttons for 'Download', 'Copy', and 'View as plain text'.

Step 8 : Pipeline overview.



The screenshot shows the Jenkins Pipeline Overview page for Build #1. The page has a dark header with the Jenkins logo, a search bar, and user information (ADMIN). The breadcrumb trail is Dashboard > Pipeline Project > #1 > Pipeline Overview. The main content area features a green checkmark icon and the text 'Build #1'. To the right are buttons for 'Rebuild', 'Console', and 'Configure'. Below this is a 'Pipeline' section with a diagram showing a linear flow from 'Start' to 'Hello' (marked with a green checkmark) to 'End'. To the right of the diagram is a 'Details' section with the following information: 'Manually run by Bharat Choudhary', 'Started 47 sec ago', 'Queued 19 ms', and 'Took 2.1 sec'. The bottom right corner indicates 'Jenkins 2.462.1'.

Step 9 : Write a new script with compile, test, and deploy stages.



The screenshot shows the Jenkins Pipeline Configuration page. The breadcrumb trail is Dashboard > Pipeline Project > Configuration. The page has a 'Configure' section on the left with tabs for 'General', 'Advanced Project Options', and 'Pipeline'. The 'Pipeline' tab is selected. The main content area is titled 'Pipeline script' and contains a code editor with the following Groovy script:

```
1 pipeline {  
2   agent any  
3  
4   stages {  
5     stage('Compile') {  
6       steps {  
7         echo 'This is the compilation stage'  
8       }  
9     }  
10  
11    stage('Test') {  
12      steps {  
13        echo 'This is the testing stage'  
14      }  
15    }  
16  
17    stage('Deploy') {  
18      steps {  
19        echo 'This is the deployment stage'  
20      }  
21    }  
22  }  
23 }  
24
```

Below the code editor is a checkbox labeled 'Use Groovy Sandbox' which is checked. At the bottom are buttons for 'Save', 'Syntax', and 'Apply'. A dropdown menu on the right side of the code editor shows 'Hello World'.

Step 10 : Check console output again.

The screenshot shows the Jenkins Dashboard. On the left, there's a sidebar with 'My Views', 'Build Queue' (showing 'No builds in the queue'), and 'Build Executor Status' (showing 1 Idle and 2 Idle). The main area displays a table of builds:

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	first project	6 days 23 hr #1	N/A	0.29 sec
✓	☀	Maven Build	6 days 23 hr #1	N/A	7.3 sec
✓	☀	Pipeline Project	5.2 sec #2	N/A	0.81 sec

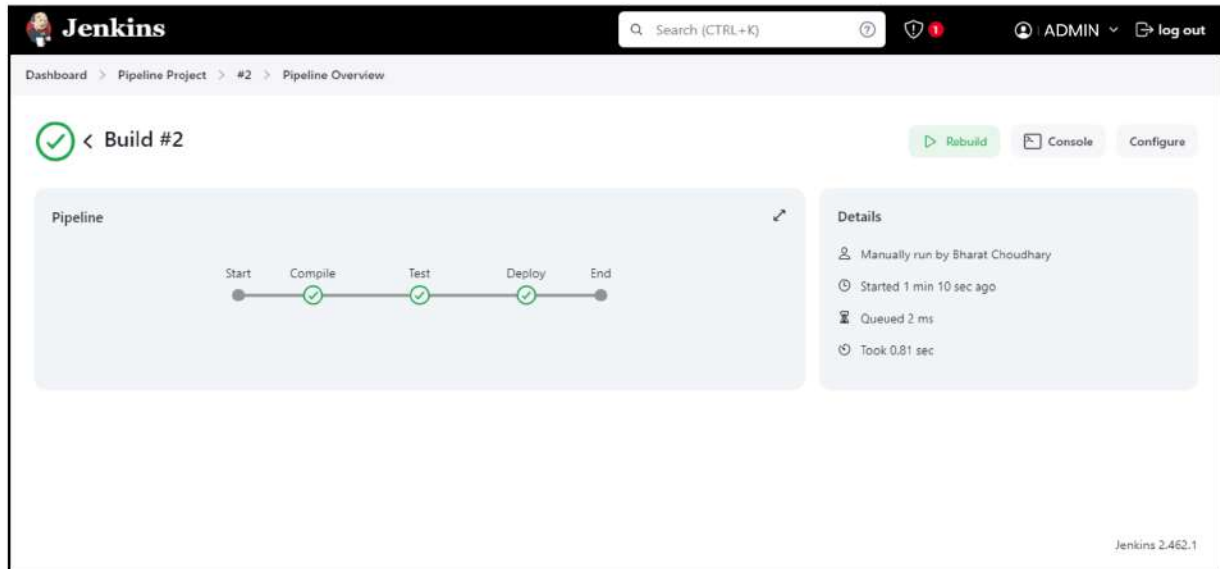
A dropdown menu is open for 'Pipeline Project' build #2, showing options: Changes, Console Output, Edit Build Information, Delete build '#2', Timings, Pipeline Overview, Pipeline Console, Restart from Stage, Replay, Pipeline Steps, and Workspaces. The 'Console Output' option is highlighted. At the bottom left, the URL 'localhost:8080/job/Pipeline Project/lastSuccessfulBuild/console' is visible.

Step 11 : Console output is visible.

The screenshot shows the Jenkins Pipeline Project console output for build #2. The left sidebar contains navigation options: Edit Build Information, Delete build '#2', Timings, Pipeline Overview, Pipeline Console (selected), Restart from Stage, Replay, Pipeline Steps, Workspaces, and Previous Build. The main area displays the following console output:

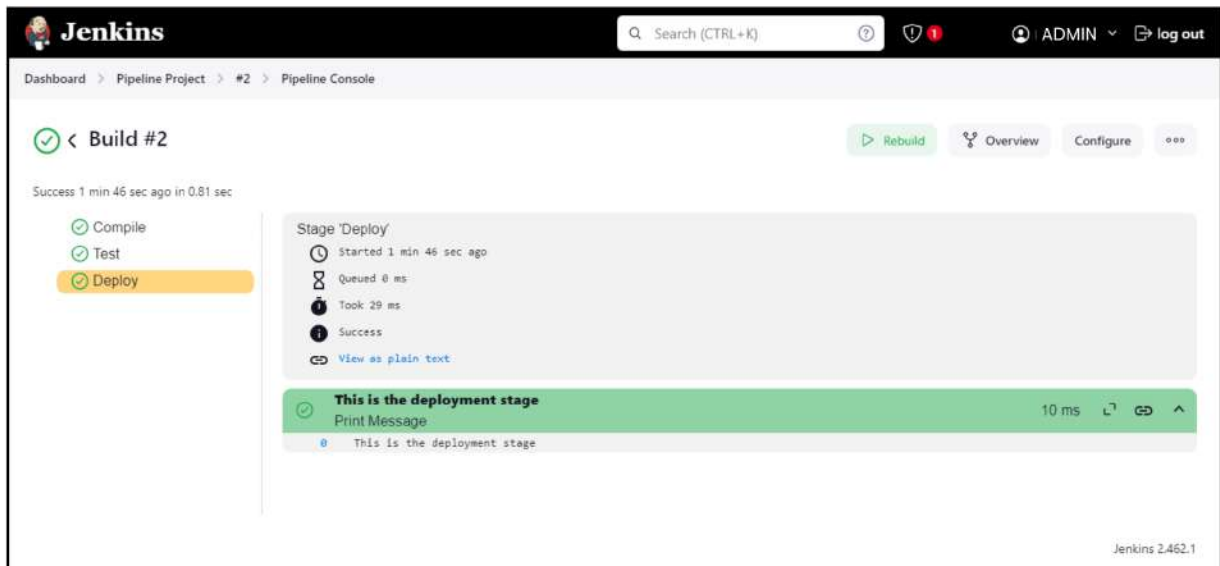
```
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\jenkins\workspace\Pipeline Project
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Compile)
[Pipeline] echo
This is the compilation stage
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] echo
This is the testing stage
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
This is the deployment stage
[Pipeline] }
[Pipeline] // stage
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Step 12 : Pipeline overview.



The screenshot shows the Jenkins Pipeline Overview page for Build #2. The top navigation bar includes the Jenkins logo, a search bar, and user information (ADMIN). The breadcrumb trail is Dashboard > Pipeline Project > #2 > Pipeline Overview. The main content area features a green checkmark icon and the text "< Build #2". To the right are buttons for Rebuild, Console, and Configure. The Pipeline section displays a horizontal flow diagram with stages: Start, Compile, Test, Deploy, and End. The Compile, Test, and Deploy stages are marked with green checkmarks. The Details section on the right provides build information: Manually run by Bharat Choudhary, Started 1 min 10 sec ago, Queued 2 ms, and Took 0.81 sec. The Jenkins version 2.462.1 is noted at the bottom right.

Step 13 : Stages can be seen.



The screenshot shows the Jenkins Pipeline Console page for Build #2. The top navigation bar is identical to the previous screenshot. The breadcrumb trail is Dashboard > Pipeline Project > #2 > Pipeline Console. The main content area features a green checkmark icon and the text "< Build #2". To the right are buttons for Rebuild, Overview, Configure, and a menu icon. The console output shows a success message: "Success 1 min 46 sec ago in 0.81 sec". On the left, a list of stages (Compile, Test, Deploy) is shown, with Deploy highlighted in orange. The Stage 'Deploy' section displays details: Started 1 min 46 sec ago, Queued 0 ms, Took 29 ms, and Success. A link "View as plain text" is provided. Below this, a green bar highlights the message "This is the deployment stage" with a timestamp of 10 ms. The Jenkins version 2.462.1 is noted at the bottom right.