

Information Technology Department

Academic Year: 2025-26

Semester: V

Class / Branch / Division: TE/IT/A&B

Subject: DevOps Lab

Practical Exam Question Bank

Sr. no.	List of experiments for practical exam
1.	<p>In Jenkins, show changes in a project with the help of webhooks. Creation of webhook:</p> <pre>PS C:\Users\Rishabh> Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser PS C:\Users\Rishabh> Invoke-RestMethod -Uri https://get.scoop.sh Invoke-Expression Initializing... Scoop is already installed. Run 'scoop update' to get the latest version. Abort.</pre> <pre>PS C:\Users\Rishabh> scoop bucket add hookdeck https://github.com/hookdeck/scoop-hookdeck-cli.git WARN The 'hookdeck' bucket already exists. To add this bucket again, first remove it by running 'scoop bucket rm hookdeck'. PS C:\Users\Rishabh> scoop install hookdeck Updating Scoop... Updating Buckets... * 4bb1df9a2b97 cargo-bininstall: Update to version 1.15.10 main 3 hours ago * 8cd87a7abc2a svtplay-dl: Update to version 4.157 main 7 hours ago</pre> <pre>Scoop was updated successfully! WARN 'hookdeck' (1.1.0) is already installed. Use 'scoop update hookdeck' to install a new version. PS C:\Users\Rishabh> hookdeck listen 8080 ? Select a source Create new source A source represents where requests originate from (ie. GitHub Actions workflow or a REST API endpoint) that you can use to send requests to. ? What should be the name of your first source? Rishabh ? What should be the name of your first source? Rishabh</pre> <p>Then copy this highlighted link and paste it in payload URL and set content type to application/json</p> <pre>Rishabh └─ Requests to → https://hkdk.events/7r7f91ozaq8hsh └─ Forwards to → http://localhost:8080/ (cli-Rishabh)</pre>

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	<p>For this, you need to fork the repository “jenkins-pipeline-tutorial” and go to the settings section and select webhooks</p> <div><p>Payload URL *</p><p>https://hkdk.events/7r7f91ozaq8hsh</p><p>Content type *</p><p>application/json</p></div> <div><div><h3>Triggers</h3><p>Set up automated actions that start your build based</p><div><input type="checkbox"/> Build after other projects are built ?</div><div><input type="checkbox"/> Build periodically ?</div><div><input checked="" type="checkbox"/> GitHub hook trigger for GITScm polling ?</div><div><input checked="" type="checkbox"/> Poll SCM ?</div><div><p>Schedule ?</p><p>H/5 * * * *</p></div></div><div><h3>Definition</h3><p>Pipeline script from SCM</p><div><p>SCM ?</p><p>Git</p><div><p>Repositories ?</p><div><p>Repository URL ?</p><p>https://github.com/R15shabh15/jenkins-pipeline-tutorial.git</p><p>Credentials ?</p><p>- none -</p><p>Advanced ▾</p></div><p>+ Add Repository</p></div></div></div></div>

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	<div><div><div>Branches to build ?</div><div><div>Branch Specifier (blank for 'any') ?</div><div>*/master</div></div><div>+ Add Branch</div><div>Repository browser ?</div><div>(Auto)</div><div>Additional Behaviours</div><div>+ Add</div></div><div><div>Script Path ?</div><div>hello-world/Jenkinsfile</div></div><div><input checked="" type="checkbox"/> Lightweight checkout ?</div><div>Pipeline Syntax</div></div> <p>Now, before performing build now, create a new file in the same forked repository</p>

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	<div><div><div><div><div><div></div><div>R15habh15</div></div></div><div>Create 1.txt</div></div></div><div><div><div>Code</div><div>Blame</div></div><div>1 lines (1 loc) · 17</div></div><div><div>1</div><div>RISHABH TRIPATHI</div></div></div> <div><div><div><div>Average stage times: (Average full run time: ~3s)</div><div><div>#2</div><div>Oct 03 16:54</div><div>1 commit</div></div></div><div><div>#1</div><div>Oct 03 16:46</div><div>No Changes</div></div></div><table><thead><tr><th>Declarative: Checkout SCM</th><th>Static Analysis</th><th>Compile</th><th>Security Check</th><th>Run Unit Tests</th><th>Run Integration Tests</th><th>Publish Artifacts</th></tr></thead><tbody><tr><td>1s</td><td>53ms</td><td>51ms</td><td>50ms</td><td>49ms</td><td>48ms</td><td>51ms</td></tr><tr><td>1s</td><td>53ms</td><td>51ms</td><td>49ms</td><td>48ms</td><td>48ms</td><td>45ms</td></tr><tr><td>1s</td><td>54ms</td><td>51ms</td><td>51ms</td><td>51ms</td><td>49ms</td><td>57ms</td></tr></tbody></table></div>	Declarative: Checkout SCM	Static Analysis	Compile	Security Check	Run Unit Tests	Run Integration Tests	Publish Artifacts	1s	53ms	51ms	50ms	49ms	48ms	51ms	1s	53ms	51ms	49ms	48ms	48ms	45ms	1s	54ms	51ms	51ms	51ms	49ms	57ms
Declarative: Checkout SCM	Static Analysis	Compile	Security Check	Run Unit Tests	Run Integration Tests	Publish Artifacts																							
1s	53ms	51ms	50ms	49ms	48ms	51ms																							
1s	53ms	51ms	49ms	48ms	48ms	45ms																							
1s	54ms	51ms	51ms	51ms	49ms	57ms																							
2.	<div>To execute 20 Git commands</div> <div>1) git –version</div> <div><pre>Rishabh@LAPTOP-8RCEBBNJ MINGW64 /c/RISHABH46 \$ git --version git version 2.51.0.windows.2</pre></div> <div>2) git init</div> <div><pre>Rishabh@LAPTOP-8RCEBBNJ MINGW64 /c/RISHABH46 \$ git init Initialized empty Git repository in C:/RISHABH46/.git/</pre></div> <div>3) git status</div>																												

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	<pre>\$ git status On branch master No commits yet Untracked files: (use "git add <file>..." to include in what will be committed) IEDriverServer.exe remoting/ selenium-server-standalone-3.141.59.jar nothing added to commit but untracked files present (use "git add" to track)</pre> <p>4) git rev-parse —short HEAD</p> <pre>\$ git rev-parse --short HEAD cea6512</pre> <p>5) git clone</p> <pre>\$ git clone https://github.com/R15habh15/MavenHelloWorld.git Cloning into 'MavenHelloWorld'... remote: Enumerating objects: 104, done. remote: Counting objects: 100% (1/1), done. remote: Total 104 (delta 0), reused 0 (delta 0), pack-reused 103 (from 2) Receiving objects: 100% (104/104), 16.86 KiB 958.00 KiB/s, done. Resolving deltas: 100% (35/35), done.</pre> <p>6) git add</p> <pre>\$ git add f1.txt Rishabh@LAPTOP-8RCEBBNJ MINGW64 /c/RISHABH46 (master) \$ git status On branch master No commits yet Changes to be committed: (use "git rm --cached <file>..." to unstage) new file: f1.txt</pre>

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	<p>7) git commit -m</p> <pre>\$ git commit -m "Message" [master (root-commit) cea6512] Message 1 file changed, 0 insertions(+), 0 deletions(-) create mode 100644 f1.txt</pre> <p>8) git log</p> <pre>\$ git log commit cea651273ee73961feb304569411d85220c88e6b (HEAD -> master) Author: R1shabh15 <rishabh.150305@gmail.com> Date: Sun Nov 2 15:29:29 2025 +0530</pre> <p>9) git diff</p> <pre>\$ git diff</pre> <p>10) git branch</p> <pre>Rishabh@LAPTOP-8RCEBE \$ git branch * master</pre> <p>11) git stash</p> <pre>\$ git stash No local changes to save</pre> <p>12) git restore <filename></p>

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	<pre>\$ git restore f1.txt Rishabh@LAPTOP-8RCEBBNJ MINGW64 /c/RISHABH46 (master) \$ git status On branch master Untracked files: (use "git add <file>..." to include in what will be committed) IEDriverServer.exe MavenHelloWorld/ remoting/ selenium-server-standalone-3.141.59.jar nothing added to commit but untracked files present (use "git add" to track)</pre> <p>13) git branch</p> <pre>Rishabh@LAPTOP-8RCEBBNJ MINGW64 /c/RISHABH46 (master) \$ git branch NEWBRanch Rishabh@LAPTOP-8RCEBBNJ MINGW64 /c/RISHABH46 (master) \$ git branch NEWBRanch * master</pre> <p>14) git rm</p> <pre>Rishabh@LAPTOP-8RCEBBNJ MINGW64 /c/RISHABH46 (master) \$ git rm f1.txt rm 'f1.txt'</pre> <p>15) git tag</p> <pre>\$ git tag TAG! Rishabh@LAPTOP-8 \$ git tag TAG!</pre>

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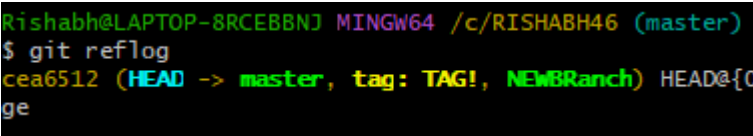
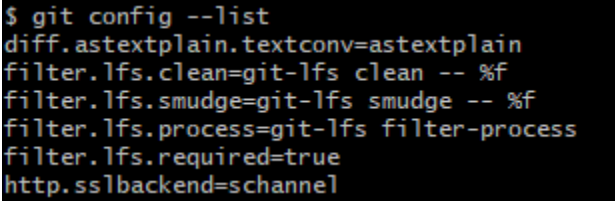
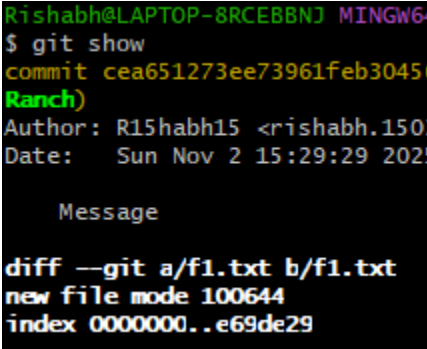
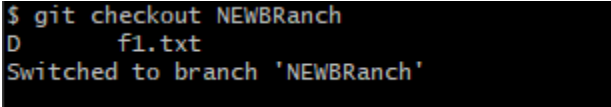
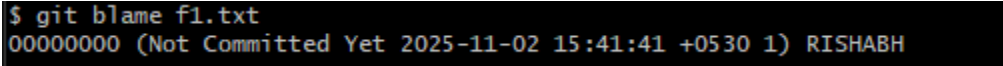
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16)	git reflog 
17)	git config 
18)	git show 
19)	git checkout 
20)	git blame 

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3.	<p>To implement Pull, Push, fetch and merge operations between Git and GitHub.</p>  <p>copy the github repo url</p> <pre>Rishabh@LAPTOP-8RCEBBNJ MINGW64 ~/OneDrive/Documents/Q3 (master) \$ git init Initialized empty Git repository in C:/Users/Rishabh/OneDrive/Documents/Q3/.git/ Rishabh@LAPTOP-8RCEBBNJ MINGW64 ~/OneDrive/Documents/Q3 (master) \$ git remote add origin https://github.com/R15habh15/TEST-REPOSITORY Rishabh@LAPTOP-8RCEBBNJ MINGW64 ~/OneDrive/Documents/Q3 (master) \$ git remote -v origin https://github.com/R15habh15/TEST-REPOSITORY (fetch) origin https://github.com/R15habh15/TEST-REPOSITORY (push) Rishabh@LAPTOP-8RCEBBNJ MINGW64 ~/OneDrive/Documents/Q3 (master) \$ git add . Rishabh@LAPTOP-8RCEBBNJ MINGW64 ~/OneDrive/Documents/Q3 (master) \$ git commit -m "Initial Commit" [master (root-commit) a9cd90c] Initial Commit 2 files changed, 0 insertions(+), 0 deletions(-) create mode 100644 F1.txt create mode 100644 F2.txt</pre>

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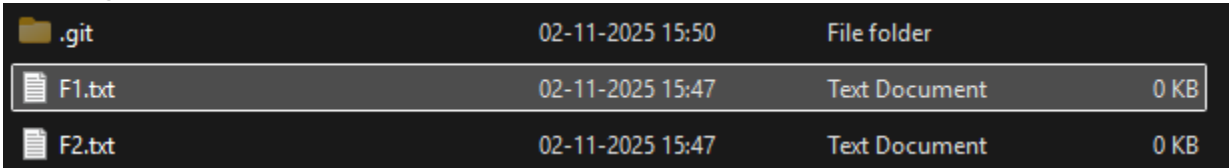
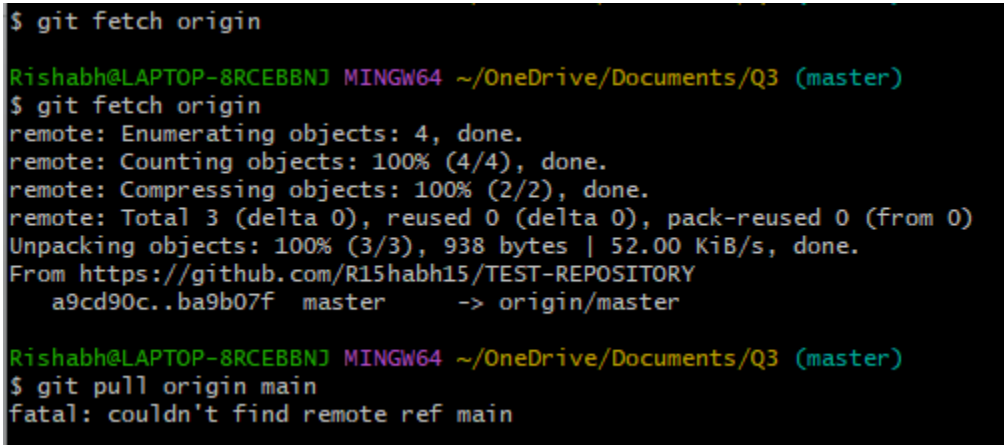

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	<p>creating two files</p>  <pre>\$ git push -u origin master Enumerating objects: 3, done. Counting objects: 100% (3/3), done. Delta compression using up to 16 threads Compressing objects: 100% (2/2), done. Writing objects: 100% (3/3), 217 bytes 108.00 KiB/s, done. Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0) To https://github.com/R15habh15/TEST-REPOSITORY * [new branch] master -> master branch 'master' set up to track 'origin/master'.</pre>  <p>creating a file in github</p> 

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	<div><pre>Rishabh@LAPTOP-8RCEBBNJ MINGW64 ~/OneDrive/Documents/Q3 (master) \$ git pull origin master From https://github.com/R1shabh15/TEST-REPOSITORY * branch master -> FETCH_HEAD Updating a9cd90c..ba9b07f Fast-forward RISHABH 1 + 1 file changed, 1 insertion(+) create mode 100644 RISHABH</pre></div> <table><thead><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th></tr></thead><tbody><tr><td> .git</td><td>02-11-2025 15:50</td><td>File folder</td><td></td></tr><tr><td> F1.txt</td><td>02-11-2025 15:47</td><td>Text Document</td><td>0 KB</td></tr><tr><td> F2.txt</td><td>02-11-2025 15:47</td><td>Text Document</td><td>0 KB</td></tr><tr><td> RISHABH</td><td>02-11-2025 15:50</td><td>File</td><td>1 KB</td></tr></tbody></table> <div><pre>\$ git branch feature Rishabh@LAPTOP-8RCEBBNJ MINGW64 ~/OneDrive/Documents/Q3 \$ git checkout master Switched to branch 'master' Your branch is up to date with 'origin/master'. Rishabh@LAPTOP-8RCEBBNJ MINGW64 ~/OneDrive/Documents/Q3 \$ git merge feature Already up to date.</pre></div>	Name	Date modified	Type	Size	 .git	02-11-2025 15:50	File folder		 F1.txt	02-11-2025 15:47	Text Document	0 KB	 F2.txt	02-11-2025 15:47	Text Document	0 KB	 RISHABH	02-11-2025 15:50	File	1 KB
Name	Date modified	Type	Size																		
 .git	02-11-2025 15:50	File folder																			
 F1.txt	02-11-2025 15:47	Text Document	0 KB																		
 F2.txt	02-11-2025 15:47	Text Document	0 KB																		
 RISHABH	02-11-2025 15:50	File	1 KB																		
4.	To build a Java Project using Jenkins with parameters to perform some mathematical operations																				

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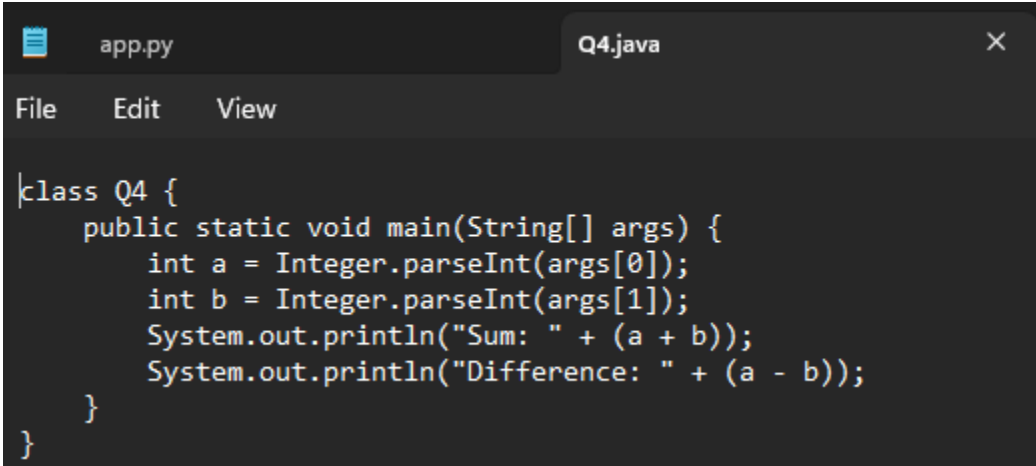
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	 <pre>class Q4 { public static void main(String[] args) { int a = Integer.parseInt(args[0]); int b = Integer.parseInt(args[1]); System.out.println("Sum: " + (a + b)); System.out.println("Difference: " + (a - b)); } }</pre>

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	<div><h3>Project RishabhQ4</h3><p>This build requires parameters:</p><div><p>A</p><input type="text" value="10"/></div><div><p>B</p><input type="text" value="6"/></div><pre>C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ4>cd C:\Users\Rishabh\OneDrive\Documents\RISHABH C:\Users\Rishabh\OneDrive\Documents\RISHABH>javac Q4.java C:\Users\Rishabh\OneDrive\Documents\RISHABH>java Q4 10 6 Sum: 16 Difference: 4 C:\Users\Rishabh\OneDrive\Documents\RISHABH>exit 0 Finished: SUCCESS</pre></div>
5.	To implement windows batch command on a project in Jenkins (with and without parameters) a)Without Parameters

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	<div><p>Build Steps</p><p>Automate your build process with ordered tasks like code compilation, testing, and deployment.</p><div><div>☰</div><div>Execute Windows batch command ?</div></div><div>Command</div><div>See the list of available environment variables</div><div>echo "Rishabh"</div></div> <div><div>✔</div><div>Console Output</div><div>Started by user Rishabh Tripathi Running as SYSTEM Building on the built-in node in workspace C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ5A [RishabhQ5A] \$ cmd /c call C:\Windows\TEMP\jenkins3016134815498400637.bat C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ5A>echo "Rishabh" "Rishabh"</div></div> <p>b)With Parameters</p>

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	<div><div><div><input checked="" type="checkbox"/> This project is parameterized ?</div><div><div><div>≡ String Parameter ?</div><div>Name ?</div><div>FName</div><div>Default Value ?</div><div></div><div>Description ?</div><div></div><div>Plain text Preview</div><div><input type="checkbox"/> Trim the string ?</div></div></div><div><div><div>≡ Boolean Parameter ?</div><div>Name ?</div><div>Student</div><div><input type="checkbox"/> Set by Default ?</div><div>Description ?</div><div></div><div>Plain text Preview</div></div></div></div><div><div><div>≡ Choice Parameter ?</div><div>Name ?</div><div>City</div><div>Choices ?</div><div>Nagpur Mumbai Pune</div><div>Description ?</div><div></div><div>Plain text Preview</div></div></div></div>

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	<p>Build Steps</p> <p>Automate your build process with ordered tasks like</p> <div><p>☰ Execute Windows batch command ?</p><p>Command</p><p>See the list of available environment variables</p><pre>echo "First Name: %FName%" echo "Are you a Student? %Student%" echo "City: %City%"</pre></div> <div><pre>C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ5B>echo "First Name: Rishabh" "First Name: Rishabh" C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ5B>echo "Are you a Student? true" "Are you a Student? true" C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ5B>echo "City: Mumbai" "City: Mumbai" C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ5B>exit 0 Finished: SUCCESS</pre></div>
6.	To build any python project (python file) in Jenkins

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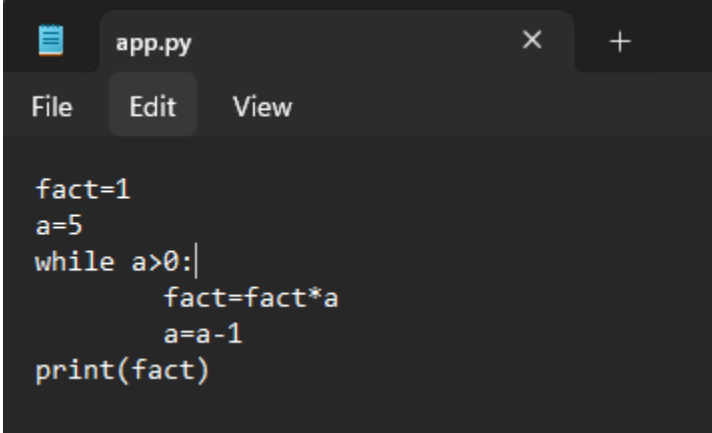
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	<div><pre>fact=1 a=5 while a>0: fact=fact*a a=a-1 print(fact)</pre></div> <p>path copy of app.py</p> <div><p>Build Steps</p><p>Automate your build process with ordered tasks like code compilation, testing, and d</p><div><p>≡ Execute Windows batch command ?</p><p>Command</p><p>See the list of available environment variables</p><div><pre>cd C:\Users\Rishabh\OneDrive\Documents\RISHABH python app.py</pre></div><p>Advanced ▾</p></div></div>

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	<pre> C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ6>cd C:\Users\Rishabh\OneDrive\Documents\RISHABH C:\Users\Rishabh\OneDrive\Documents\RISHABH>python app.py 120 C:\Users\Rishabh\OneDrive\Documents\RISHABH>exit 0 Finished: SUCCESS </pre>
7.	<p>To build an Ant project in Jenkins and show how builds can be scheduled with some specific cron command Fork a repository “RPS-ANT by sheetalverma2” Source Code Management</p> <p>Connect and manage your code repository to automatic:</p> <p> <input type="radio"/> None <input checked="" type="radio"/> Git ? </p> <p>Repositories ?</p> <div> <p>Repository URL ?</p> <p>https://github.com/R15habh15/RPS-ANT.git</p> <p>Credentials ?</p> <p>- none -</p> <p>Advanced ▾</p> </div> <p>Triggers</p> <p>Set up automated actions that</p> <p> <input type="checkbox"/> Trigger builds remotely (e <input type="checkbox"/> Build after other projects <input checked="" type="checkbox"/> Build periodically ? </p> <p>Schedule ?</p> <p>H/5 * * * *</p>

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	<div><div><div><div><div>Build Steps</div><div>Automate your build process \</div><div><div><div>≡</div><div>Invoke Ant ?</div></div><div>Ant Version</div><div>Default</div><div>Targets ?</div><div>clean compile package</div><div>Advanced ▾</div><div>+ Add build step</div></div></div><div><div>BUILD SUCCESSFUL</div><div>Total time: 4 seconds</div><div>Finished: SUCCESS</div></div><div><div><div>✔ #4 1:31 PM</div><div>✔ #3 1:27 PM</div></div><div><div>▾</div><div>▾</div></div></div></div></div><p>For every 4-5 minutes you must see the builds getting done</p></div>
8.	To create a pipeline script (consisting of stages, parameters etc.) and build a pipeline of

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	<div><div>jobs in Jenkins</div><div><div><div>Pipeline</div><div>Define your Pipeline using Groovy directly or pull it</div><div><div><div><div><div><input checked="" type="checkbox"/> This project is parameterized ?</div></div><div><div><div><div>≡ String Parameter ?</div><div><div>Name ?</div><div>DEVICE_OWNER</div></div><div><div>Default Value ?</div><div></div></div><div><div>Description ?</div><div>Enter Owner Name:</div></div><div>Plain text Preview</div><div><input type="checkbox"/> Trim the string ?</div></div><div><div>+ Add Parameter</div></div></div></div><div><div>Definition</div><div>Pipeline script</div><div><div>Script ?</div><div><pre>1 pipeline { 2 agent any 3 stages{ 4 stage("stage1"){ 5 agent any 6 steps{ 7 echo "Lapt 8 } 9 } 10 stage("stage2"){ 11 agent any 12 steps{ 13 echo "Hell 14 } 15 } }</pre></div></div><div><div><input checked="" type="checkbox"/> Use Groovy Sandbox ?</div><div>Pipeline Syntax</div></div></div></div></div></div></div></div></div>

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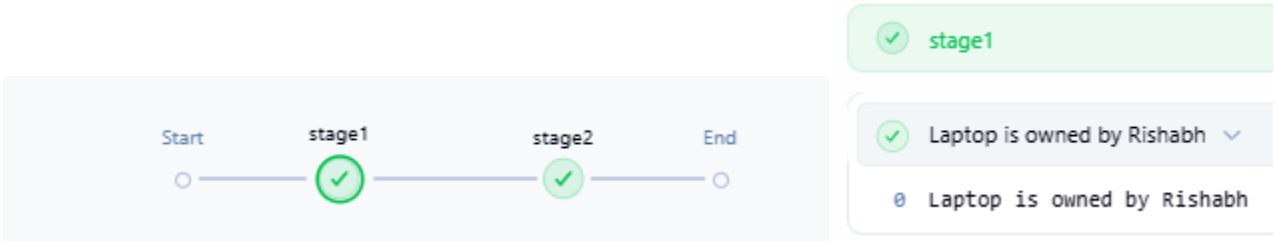
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	<p>Pipeline Script:</p> <pre>pipeline { agent any stages{ stage("stage1"){ agent any steps{ echo "Laptop is owned by \${params.DEVICE_OWNER}" } } stage("stage2"){ agent any steps{ echo "Hello Rishabh" } } } }</pre> 

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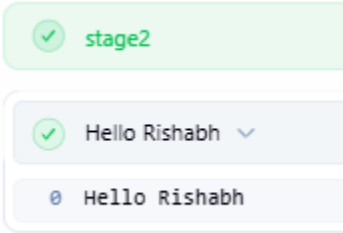
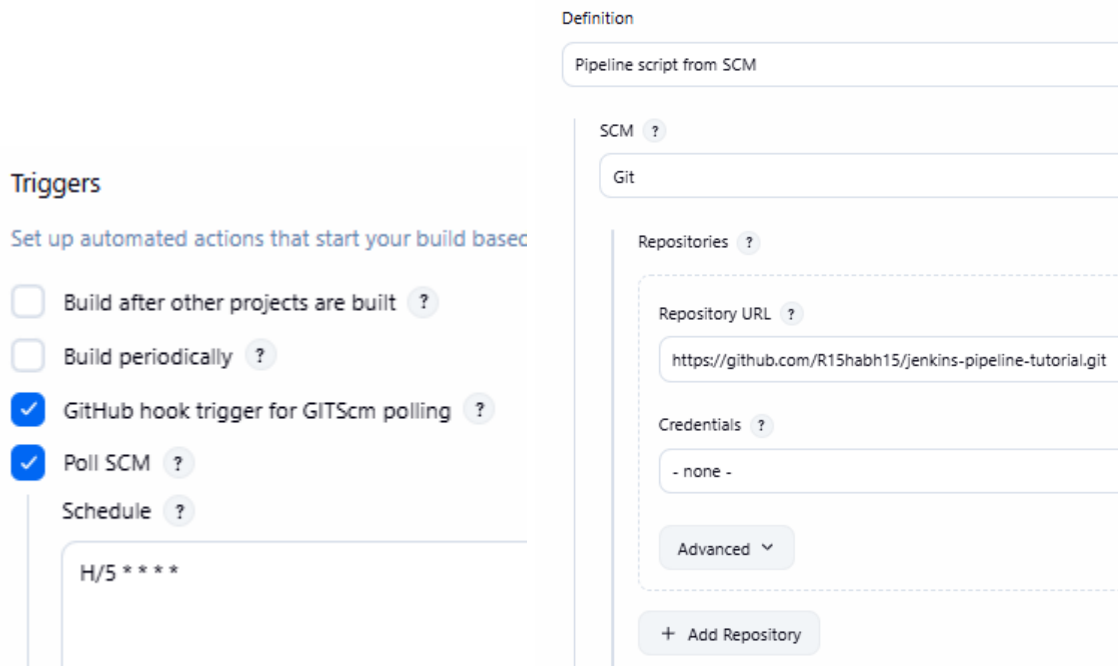
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9.	<p>To fork a GitHub repository with Jenkinsfile and build a pipeline of jobs in Jenkins (Similar to Q1) You need to create webhooks in this as well, refer Q1 for creation of webhooks.</p> 

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	<div><div>Branches to build ?</div><div><div>Branch Specifier (blank for 'any') ?</div><div>*/master</div></div><div>+ Add Branch</div><div>Repository browser ?</div><div>(Auto)</div><div>Additional Behaviours</div><div>+ Add</div></div> <div><div>Script Path ?</div><div>hello-world/Jenkinsfile</div></div> <div><input checked="" type="checkbox"/> Lightweight checkout ?</div> <div>Pipeline Syntax</div> <div><div><div>Average stage times: (Average full run time: ~4s)</div><div><div>#1</div><div>Oct 03 16:46</div><div>No Changes</div></div></div><table><tr><th>Declarative: Checkout SCM</th><th>Static Analysis</th><th>Compile</th><th>Security Check</th><th>Run Unit Tests</th><th>Run Integration Tests</th><th>Publish Artifacts</th></tr><tr><td>1s</td><td>54ms</td><td>51ms</td><td>51ms</td><td>51ms</td><td>49ms</td><td>57ms</td></tr><tr><td>1s</td><td>54ms</td><td>51ms</td><td>51ms</td><td>51ms</td><td>49ms</td><td>57ms</td></tr></table></div>	Declarative: Checkout SCM	Static Analysis	Compile	Security Check	Run Unit Tests	Run Integration Tests	Publish Artifacts	1s	54ms	51ms	51ms	51ms	49ms	57ms	1s	54ms	51ms	51ms	51ms	49ms	57ms
Declarative: Checkout SCM	Static Analysis	Compile	Security Check	Run Unit Tests	Run Integration Tests	Publish Artifacts																
1s	54ms	51ms	51ms	51ms	49ms	57ms																
1s	54ms	51ms	51ms	51ms	49ms	57ms																
10.	In Jenkins, create a slave node, connect it with master and build a project in slave node																					

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	<p>Also set TCP port as Random. Go to this section by going to manage jenkins and select security</p> <p>Agents</p> <p>TCP port for inbound agents ?</p> <p><input type="radio"/> Fixed</p> <p><input checked="" type="radio"/> Random</p> <p><input type="radio"/> Disable</p> <p>For creating a node go to manage jenkins and then select node option</p> <div><div><p>New node</p><p>Node name</p><p>Rishabh_Slave</p><p>Type</p><p><input checked="" type="radio"/> Permanent Agent Adds a plain, permanent agent to Jer type if no other agent types apply —</p><p><input type="radio"/> Copy Existing Node</p></div><div><p>Number of executors ?</p><p>1</p><p>Remote root directory ?</p><p>C:\RISHABH46</p><p>Labels ?</p><p>b3</p><p>Usage ?</p><p>Use this node as much as possible</p><p>Launch method ?</p><p>Launch agent by connecting it to the controller</p></div></div>

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



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	<p>Then you will get a screen consisting of different codes, there copy the windows code and paste it in cmd</p> <p>Run from agent command line: (Windows) </p> <pre>curl.exe -sO http://localhost:8080/jnlpJars/agent.jar java -jar agent.jar -url http://localhost:8080/ -secret 553a8a31257f15e7560cc9ee8d877ad30fd802b4fa9b3ebd23040d68a0578c4b -name "Rishabh_Slave" -webSocket -workDir "C:\RISHABH46"</pre> <pre>C:\Users\Rishabh>curl.exe -sO http://localhost:8080/jnlpJars/agent.jar & java -jar agent.jar -url http://localhost:8080/ -secret 553a8a31257f15e7560cc9ee8d877ad30fd802b4fa9b3ebd23040d68a0578c4b -name "Rishabh_Slave" -webSocket -workDir "C:\ RISHABH46" Nov 02, 2025 2:57:08 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir Nov 02, 2025 2:57:08 PM hudson.remoting.Launcher\$CuiListener status INFO: Connected</pre> <p>Now , create a freestyle Job</p> <p><input checked="" type="checkbox"/> Restrict where this project can be run </p> <p>Label Expression </p> <p>b3</p> <p>Label b3 matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list.</p> <p>Build Steps</p> <p>Automate your build process with ordered tasks like code <</p> <p> Execute Windows batch command </p> <p>Command</p> <p>See the list of available environment variables</p> <pre>echo "Hello RISHABH"</pre> <pre>Started by user Rishabh Tripathi Running as SYSTEM Building remotely on Rishabh_Slave (b3) in workspace C:\R [RishabhQ10] \$ cmd /c call C:\Users\Rishabh\AppData\Local C:\RISHABH46\workspace\RishabhQ10>echo "Hello RISHABH" "Hello RISHABH" C:\RISHABH46\workspace\RishabhQ10>exit 0 Finished: SUCCESS</pre>

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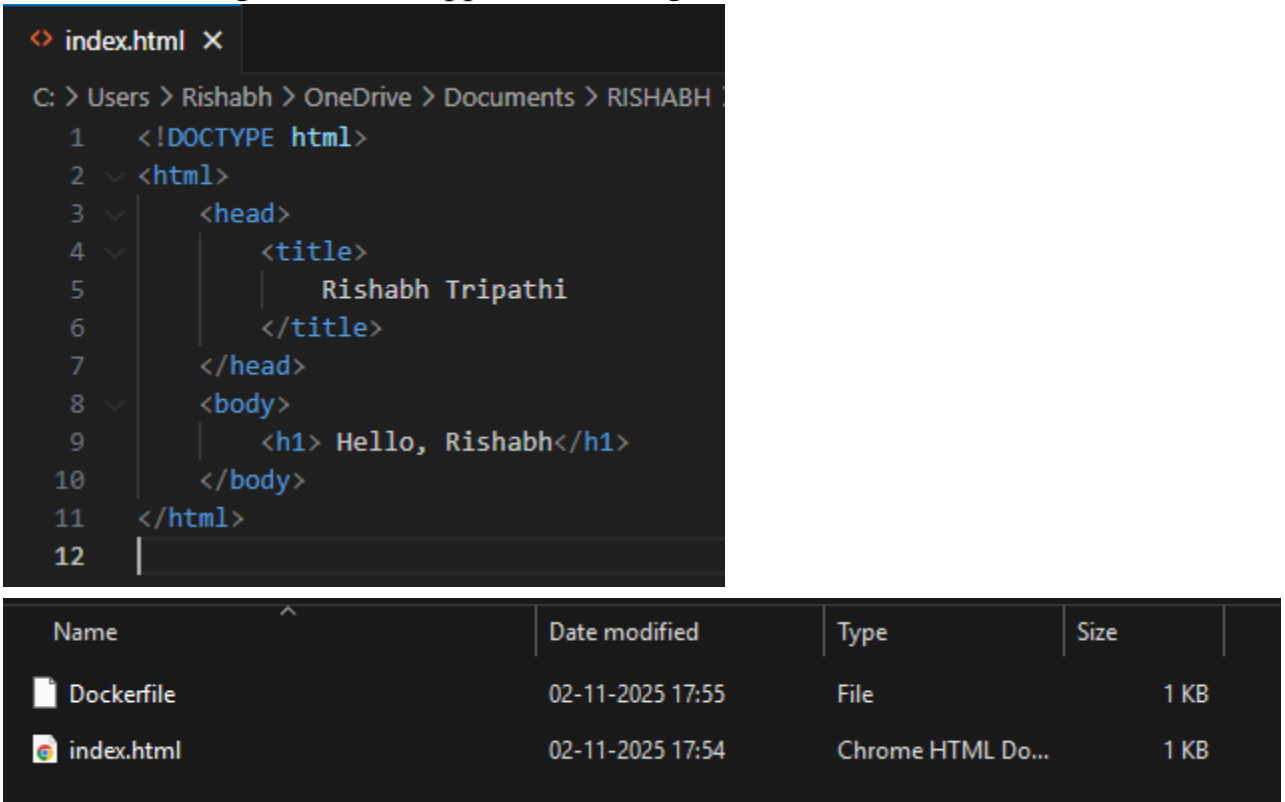
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11.	<p>To build an image for a web application using Dockerfile</p>  <p>The screenshot displays a code editor with a file named 'index.html' open. The code is an HTML document with a title 'Rishabh Tripathi' and a heading 'Hello, Rishabh'. Below the code editor, a file explorer shows two files: 'Dockerfile' and 'index.html', both with a size of 1 KB and a modification date of 02-11-2025 17:55.</p>

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	<pre>C:\Users\Rishabh\OneDrive\Documents\RISHABH\Q10>docker build -t image46 . [+] Building 23.6s (10/10) FINISHED => [internal] load build definition from Dockerfile => => transferring dockerfile: 266B => WARN: MaintainerDeprecated: Maintainer instruction is deprecated in f => [internal] load metadata for docker.io/library/ubuntu:latest => [internal] load .dockerignore => => transferring context: 2B => [1/5] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102 => => resolve docker.io/library/ubuntu:latest@sha256:66460d557b25769b102 => [internal] load build context => => transferring context: 222B => [2/5] RUN apt update -y => [3/5] RUN apt install nginx -y => [4/5] COPY index.html /usr/share/nginx/html/index.html => [5/5] COPY index.html /var/www/html/index.html => exporting to image => => exporting layers => => exporting manifest sha256:11e7bf017a02b85e6b931c1b2c4fecf86c6d6355 => => exporting config sha256:e5b6c3ffcc39b5cc3336c53a34090b361a1a86b10e => => exporting attestation manifest sha256:ffb2cdbedf2fc326db417a432116 => => exporting manifest list sha256:69fea3a7e71e43eed1035a64a371feeb87e => => naming to docker.io/library/image46:latest => => unpacking to docker.io/library/image46:latest 1 warning found (use docker --debug to expand): - MaintainerDeprecated: Maintainer instruction is deprecated in favor of</pre>

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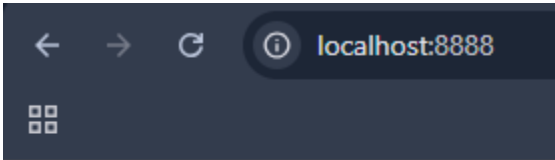
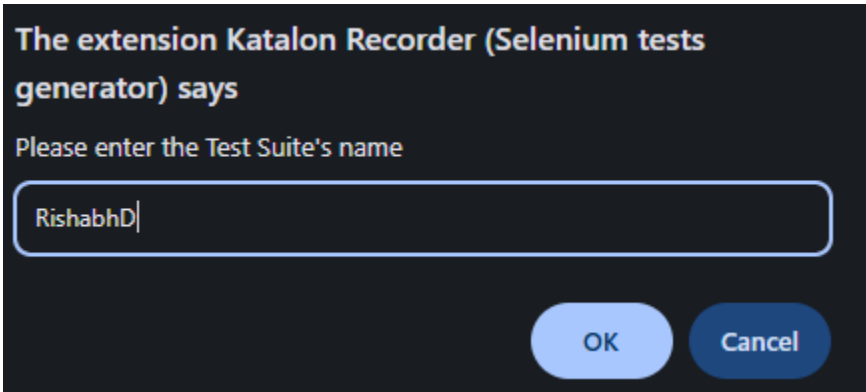
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	<pre>C:\Users\Rishabh\OneDrive\Documents\RISHABH\Q10>docker images REPOSITORY TAG IMAGE ID CREATED SIZE image46 latest 69fea3a7e71e 27 seconds ago 222MB ubuntu latest 66460d557b25 4 weeks ago 117MB C:\Users\Rishabh\OneDrive\Documents\RISHABH\Q10>docker run -t -ip 8888:80 image46</pre>  <p>Hello, Rishabh</p>
12.	<p>To create and run a test case on Chrome browser with Katalon selenium IDE addon</p> 

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	<div><p>The extension Katalon Recorder (Selenium tests generator) says</p><p>Please enter the Test Case's name</p><input type="text" value="test"/></div> <div><p>Test Suites</p><p>Passed: 0 Failed: 0</p><p>RishabhD</p><p>test</p></div> <p>Now press the record button and browse to any website (for eg trivago and perform search for any hotels)</p> <div><p>Katalon Recorder 7.1.0</p><p>Katalon Recorder</p><p>Record Play Test Case Play Test Suite Play All Suites Pause Execution</p></div> <p>And then play the test case</p>
13.	<p>To execute 20 linux commands</p> <p>1)ls</p> <div><p>labex:RISHABH/ \$ ls</p><p>F1 F2</p></div> <p>2) pwd</p>

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	<pre>labex:RISHABH/ \$ pwd /home/labex/Desktop/RISHABH</pre> <p>3) cp</p> <pre>labex:RISHABH/ \$ cp F1 F2</pre> <p>4) mkdir</p> <pre>labex:RISHABH/ \$ mkdir FILES labex:RISHABH/ \$ ls F1 F2 FILES</pre> <p>5)mv</p> <pre>labex:RISHABH/ \$ mv F1 FILES</pre> <p>6) cd</p> <pre>labex:RISHABH/ \$ cd FILES labex:FILES/ \$ ls F1</pre> <p>7)rm</p> <pre>labex:RISHABH/ \$ rm F2 labex:RISHABH/ \$ ls FILES</pre> <p>8)history</p>

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	<pre>labex:RISHABH/ \$ history 1 hostnamectl hostname RIshabh 2 hostnamectl hostname Rishabh 3 sudo -v 5 pwd 6 ls F1 7 cp F1 F2 8 mkdir FILES 10 mv F1 FILES</pre> <p>9)df</p> <pre>labex:RISHABH/ \$ df Filesystem 1K-blocks Used Available Use% Mounted on overlay 20971520 130160 20841360 1% / tmpfs 65536 0 65536 0% /dev tmpfs 8052896 0 8052896 0% /sys/fs/cgroup shm 65536 0 65536 0% /dev/shm</pre> <p>10)du</p> <pre>labex:RISHABH/ \$ du 4 ./FILES 4 .</pre> <p>11)free</p>

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	<pre>labex:RISHABH/ \$ free total used free shared buff/cache available Mem: 16105792 6045868 4838168 125256 5221756 9597644 Swap: 0 0 0</pre> <p>12)uname -a</p> <pre>labex:RISHABH/ \$ uname -a Linux 69073ff60f92ec70f168f68d 5.4.0-162-generic #17 1:31 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux</pre> <p>13)man <command name></p>

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	<pre> SUDO(8) BSD System Manager's Manual SUDO(8) NAME sudo, sudoedit – execute a command as another user SYNOPSIS sudo -h -K -k -V sudo -v [-ABknS] [-g group] [-h host] [-p prompt] [-u user] sudo -l [-ABknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command] sudo [-ABbEHnPS] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-r role] [-t type] [-T timeout] [-u user] [VAR=value] [-i -s] [command] sudoedit [-ABknS] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-r role] [-t type] [-T timeout] [-u user] file ... DESCRIPTION sudo allows a permitted user to execute a <u>command</u> as the superuser or an- other user, as specified by the security policy. The invoking user's real (<u>not</u> effective) user-ID is used to determine the user name with which to query the security policy. Manual page sudo(8) line 1 (press h for help or q to quit) 14)whatis Labex:RISHABH/ \$ whatis mkdir mkdir (1) - make directories mkdir (2) - create a directory 15)date </pre>

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	<pre>labex:RISHABH/ \$ date Sun Nov 2 07:44:22 PM CST 2025</pre> <p>16)w</p> <pre>labex:RISHABH/ \$ w 19:44:26 up 58 days, 9:02, 0 users, load average: 1.38, 1.14, 0.90 USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT</pre> <p>17)echo</p> <pre>labex:RISHABH/ \$ echo RISHABH RISHABH</pre> <p>18)exit 19)head</p>

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	<div><div>Open ▾ +</div><div><div>1 Rishabh</div><div>2 Sumit</div><div>3 Abhishekh</div><div>4 Chinmay</div><div>5 Smeet</div><div>6 Soham</div><div>7 Pranit</div><div>8 Oom</div><div>9 Taksh</div><div>10 Harshit</div><div>11 keegan</div><div>12 Aakash</div><div>13 Soham Patil </div></div></div> <div><pre>labex:RISHABH/ \$ head F! Rishabh Sumit Abhishekh Chinmay Smeet Soham Pranit Oom Taksh Harshit</pre></div> <div>20)Tail</div>

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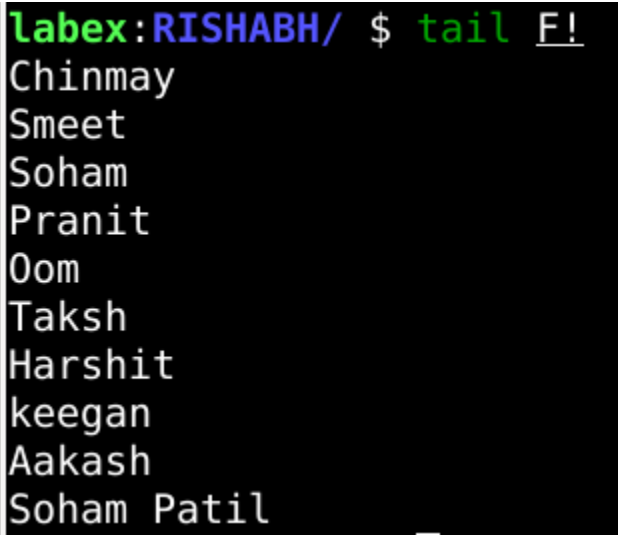
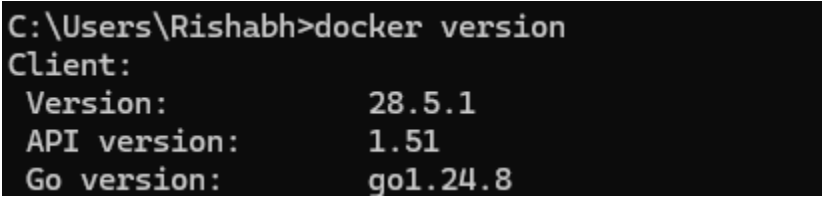
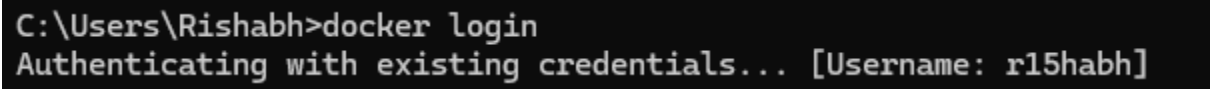
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14.	<p>To execute 20 docker commands</p> <p>1) docker version</p>  <p>2) docker login</p>  <p>3) docker images</p>

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	<div><pre>C:\Users\Devops>docker images</pre><table><tr><th>REPOSITORY</th><th>TAG</th><th>IMAGE ID</th><th>CREATED</th><th>SIZE</th></tr><tr><td>teitb2</td><td>latest</td><td>1c523a303e67</td><td>20 hours ago</td><td>140MB</td></tr><tr><td>alby22/test</td><td>1</td><td>f374231e46f9</td><td>21 hours ago</td><td>78.1MB</td></tr><tr><td>test</td><td>1</td><td>7a94bef73dd6</td><td>21 hours ago</td><td>78.1MB</td></tr></table></div> <div>4) docker pull image</div> <div><pre>C:\Users\Devops-1>docker pull ubuntu Using default tag: latest latest: Pulling from library/ubuntu a1a21c96bc16: Download complete Digest: sha256:728785b59223d755e3e5c5af178fab1be7031f3522c5ccd7a0b32b80d82481 Status: Downloaded newer image for ubuntu:latest docker.io/library/ubuntu:latest What's next: View a summary of image vulnerabilities and recommendations → docker scan C:\Users\Devops-1>docker images</pre><table><tr><th>REPOSITORY</th><th>TAG</th><th>IMAGE ID</th><th>CREATED</th><th>SIZE</th></tr><tr><td>viyanngnx</td><td>latest</td><td>3ac15b7a6796</td><td>2 days ago</td><td>221MB</td></tr><tr><td>viyandabre/viyanimg</td><td>123</td><td>d19c035b576e</td><td>2 days ago</td><td>117MB</td></tr><tr><td>ubuntu</td><td>latest</td><td>728785b59223</td><td>8 days ago</td><td>117MB</td></tr><tr><td>fedora</td><td>latest</td><td>0c5ab5380e63</td><td>10 days ago</td><td>244MB</td></tr><tr><td>ubuntu</td><td>plucky</td><td>103c7471649a</td><td>13 days ago</td><td>116MB</td></tr><tr><td>ubuntu</td><td>rolling</td><td>103c7471649a</td><td>13 days ago</td><td>116MB</td></tr><tr><td>ubuntu</td><td>plucky-20250910</td><td>55250b41df8c</td><td>4 weeks ago</td><td>116MB</td></tr></table></div> <div>5) Docker pull image-tag</div>	REPOSITORY	TAG	IMAGE ID	CREATED	SIZE	teitb2	latest	1c523a303e67	20 hours ago	140MB	alby22/test	1	f374231e46f9	21 hours ago	78.1MB	test	1	7a94bef73dd6	21 hours ago	78.1MB	REPOSITORY	TAG	IMAGE ID	CREATED	SIZE	viyanngnx	latest	3ac15b7a6796	2 days ago	221MB	viyandabre/viyanimg	123	d19c035b576e	2 days ago	117MB	ubuntu	latest	728785b59223	8 days ago	117MB	fedora	latest	0c5ab5380e63	10 days ago	244MB	ubuntu	plucky	103c7471649a	13 days ago	116MB	ubuntu	rolling	103c7471649a	13 days ago	116MB	ubuntu	plucky-20250910	55250b41df8c	4 weeks ago	116MB
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE																																																									
teitb2	latest	1c523a303e67	20 hours ago	140MB																																																									
alby22/test	1	f374231e46f9	21 hours ago	78.1MB																																																									
test	1	7a94bef73dd6	21 hours ago	78.1MB																																																									
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE																																																									
viyanngnx	latest	3ac15b7a6796	2 days ago	221MB																																																									
viyandabre/viyanimg	123	d19c035b576e	2 days ago	117MB																																																									
ubuntu	latest	728785b59223	8 days ago	117MB																																																									
fedora	latest	0c5ab5380e63	10 days ago	244MB																																																									
ubuntu	plucky	103c7471649a	13 days ago	116MB																																																									
ubuntu	rolling	103c7471649a	13 days ago	116MB																																																									
ubuntu	plucky-20250910	55250b41df8c	4 weeks ago	116MB																																																									

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	<pre>C:\Users\Devops-1>docker pull ubuntu Using default tag: latest latest: Pulling from library/ubuntu a1a21c96bc16: Download complete Digest: sha256:728785b59223d755e3e5c5af178fab1be7031f3522c5ccd7a0b32b80d82481 Status: Downloaded newer image for ubuntu:latest docker.io/library/ubuntu:latest What's next: View a summary of image vulnerabilities and recommendations → docker scan C:\Users\Devops-1>docker images REPOSITORY TAG IMAGE ID CREATED SIZE viyanngnx latest 3ac15b7a6796 2 days ago 221MB viyandabre/viyanimg 123 d19c035b576e 2 days ago 117MB ubuntu latest 728785b59223 8 days ago 117MB fedora latest 0c5ab5380e63 10 days ago 244MB ubuntu plucky 103c7471649a 13 days ago 116MB ubuntu rolling 103c7471649a 13 days ago 116MB ubuntu plucky-20250910 55250b41df8c 4 weeks ago 116MB</pre> <p>6) Docker images help</p> <pre>C:\Users\Devops>docker images --help Usage: docker images [OPTIONS] [REPOSITORY[:TAG]] List images Aliases: docker image ls, docker image list, docker images</pre> <p>7) docker run commands</p>

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	<pre>C:\Users\Devops>docker run ubuntu C:\Users\Devops>docker run --name rishabh -it ubuntu bash root@b8022f6ba517:/# ls bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var root@b8022f6ba517:/# mkdir Rishabh root@b8022f6ba517:/# ls Rishabh bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var</pre> <p>8) docker ps</p> <pre>C:\Users\Devops>docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES b8022f6ba517 ubuntu "bash" About a minute ago Up About a minute ports rishabh</pre> <p>9) docker start <container_name></p> <pre>C:\Users\Devops>docker start b8022f6ba517 b8022f6ba517 C:\Users\Devops>docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES b8022f6ba517 ubuntu "bash" 6 minutes ago Up 2 seconds ports rishabh</pre> <p>10) docker pause <container_name></p> <pre>C:\Users\Devops>docker pause b8022f6ba517 b8022f6ba517 C:\Users\Devops>docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES b8022f6ba517 ubuntu "bash" 3 minutes ago Up 3 minutes (Paused) ports rishabh</pre> <p>11) docker stop <container_name></p> <pre>C:\Users\Devops>docker stop b8022f6ba517 b8022f6ba517 C:\Users\Devops>docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES</pre> <p>12) docker top <container_name></p>

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	<pre>C:\Users\Devops>docker top b8022f6ba517 UID PID PPID C STIME TTY TIME CMD root 683 663 0 04:27 ? 00:00:00 bash</pre> <p>13) docker stats <container_name></p> <pre>C:\Users\Devops>docker stats b8022f6ba517 CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS b8022f6ba517 rishabh 0.00% 884KiB / 7.636GiB 0.01% 1.05kB / 0B 0B / 0B 1 CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS b8022f6ba517 rishabh 0.00% 884KiB / 7.636GiB 0.01% 1.05kB / 0B 0B / 0B 1 CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS b8022f6ba517 rishabh 0.00% 884KiB / 7.636GiB 0.01% 1.05kB / 0B 0B / 0B 1 CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS b8022f6ba517 rishabh 0.00% 884KiB / 7.636GiB 0.01% 1.05kB / 0B 0B / 0B 1 CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS b8022f6ba517 rishabh 0.00% 884KiB / 7.636GiB 0.01% 1.05kB / 0B 0B / 0B 1</pre> <p>14) docker rm container</p> <pre>C:\Users\Devops>docker stop b8022f6ba517 b8022f6ba517 C:\Users\Devops>docker rm b8022f6ba517 b8022f6ba517 C:\Users\Devops>docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES</pre>

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	<div>15) docker inspect image</div> <div><pre>C:\Users\Devops>docker inspect ubuntu [{ "Id": "sha256:ce8f79aecc435fc0b22d4dd58c72836e330beddf204491eef3f91af51bc48ed7", "RepoTags": ["ubuntu:latest", "ubuntu:noble-20250925"], "RepoDigests": ["ubuntu@sha256:728785b59223d755e3e5c5af178fab1be7031f3522c5ccd7a0b32b80d8248123"], "Parent": "", "Comment": "", "Created": "2025-09-30T14:32:31.025115116Z", "DockerVersion": "26.1.3", "Author": "", "Config": { "Hostname": "",</pre></div> <div>16) docker rmi</div> <div><pre>C:\Users\Devops>docker rmi ubuntu:plucky-20250925.1 Untagged: ubuntu:plucky-20250925.1 Untagged: ubuntu@sha256:103c7471649a4fd9996fe73dff20f46082e4e0f0f6240c91954b8b09c38b6faf Deleted: sha256:482b635a13cd0d27889dd500478c02c6234417636ca69e5c0697ce8ae176504a Deleted: sha256:db7a323d9ab3a7e9ed601450a6b25a988da98763b5366f569783fe9dfc8887fd</pre></div> <div>17) docker commit</div> <div><pre>C:\Users\Devops>docker ps -a</pre><table><thead><tr><th>CONTAINER ID</th><th>IMAGE</th><th>COMMAND</th><th>CREATED</th><th>STATUS</th><th>PORTS</th></tr></thead><tbody><tr><td>d0bf58da5f66</td><td>ubuntu</td><td>"bash"</td><td>54 seconds ago</td><td>Up 53 seconds</td><td></td></tr></tbody></table><div><div><div></div><div></div><div>tripathi</div><div>d0bf58da5f66</div><div>ubuntu:<none></div><div>-</div><div>0% 6 minutes ago</div><div></div><div></div><div></div></div></div><div><pre>C:\Users\Devops>docker commit d0bf58da5f66 r15habh/tripathi:1 sha256:3e10a5904d12d351a228aafefb886f923fb11533e9f64a82fb52ea6cdf24b1728</pre></div></div>	CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	d0bf58da5f66	ubuntu	"bash"	54 seconds ago	Up 53 seconds	
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS								
d0bf58da5f66	ubuntu	"bash"	54 seconds ago	Up 53 seconds									

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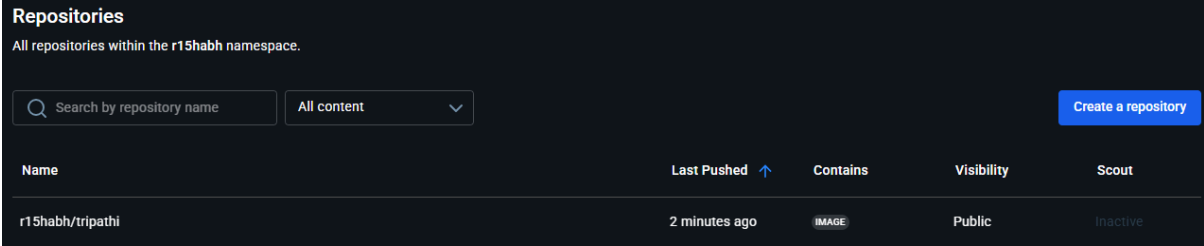
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	<p>18) docker push</p> <pre>C:\Users\Devops>docker push r15habh/tripathi:1 The push refers to repository [docker.io/r15habh/tripathi] 65b08cd99c60: Mounted from alby22/test 1: digest: sha256:3019d2d65af5403c648d1be2a029e0a304106f9833b14b602d54d6f2fa396a54 size: 529</pre>  <p>19) docker history image</p> <pre>C:\Users\Devops>docker history 220c18b642b8 IMAGE CREATED CREATED BY SIZE COMMENT 220c18b642b8 11 minutes ago bash 0B ce8f79aecc43 9 days ago /bin/sh -c #(nop) CMD ["/bin/bash"] 0B <missing> 9 days ago /bin/sh -c #(nop) ADD file:d9cb8116905a82675... 78.1MB <missing> 9 days ago /bin/sh -c #(nop) LABEL org.opencontainers... 0B <missing> 9 days ago /bin/sh -c #(nop) LABEL org.opencontainers... 0B <missing> 9 days ago /bin/sh -c #(nop) ARG LAUNCHPAD_BUILD_ARCH 0B <missing> 9 days ago /bin/sh -c #(nop) ARG RELEASE 0B</pre> <p>20) docker logs <container_id></p> <pre>C:\Users\Rishabh>docker logs f3eb1c6f2e63db37c6392927f4b499d19c5f4e05f5e4005e7b44ee33558</pre> <p>21) docker info</p> <pre>C:\Users\Rishabh>docker info Client: Version: 28.5.1 Context: desktop-linux</pre>
15.	To make a GitHub repository with your own Jenkinsfile and build a pipeline of jobs in

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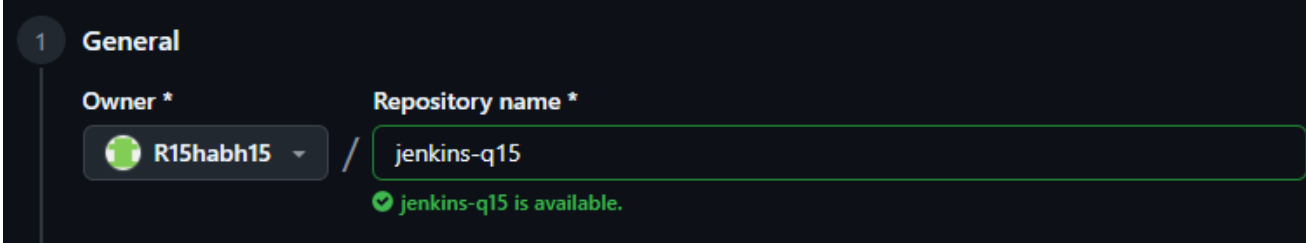
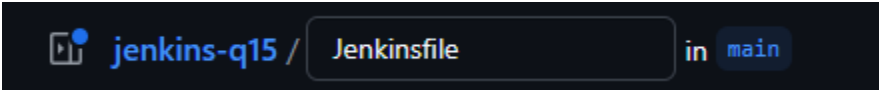
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	<p>Jenkins</p> <p>First Create a Github repository , make it public and write create a file named “Jenkinsfile” without any extensions</p>   <p>Write the code below in this file:</p> <pre>pipeline { agent any stages { stage('Build') { steps { echo "Building project for Rishabh" } } stage('Test') { steps { echo "Running tests..." } } } }</pre>

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	<pre>stage('Deploy') { steps { echo "Deploying build..." } }</pre>

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	<div><div><div><div>Pipeline</div><div>Define your Pipeline using Groovy directly or pull it from source</div><div>Definition</div><div>Pipeline script from SCM</div><div>SCM ?</div><div>Git</div><div>Repositories ?</div><div>Repository URL ?</div><div>https://github.com/R15habh15/jenkins-q15.git</div><div><div>! Please enter Git repository.</div></div><div>Credentials ?</div><div>- none -</div><div>Advanced</div></div></div><div><div>+ Add Repository</div><div>Branches to build ?</div><div>Branch Specifier (blank for 'any') ?</div><div>*/main</div><div>+ Add Branch</div><div>Repository browser ?</div><div>(Auto)</div><div>Additional Behaviours</div><div>+ Add</div><div>Script Path ?</div><div>Jenkinsfile</div><div><div>Lightweight checkout ?</div></div></div></div>

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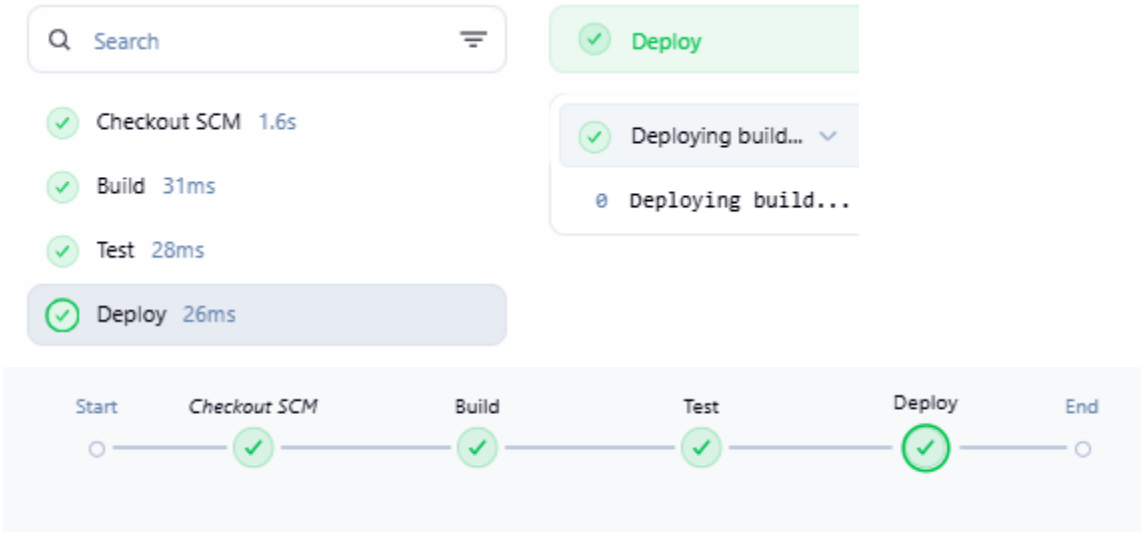
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	 <p>The screenshot displays a Jenkins pipeline execution. At the top, there is a search bar and a 'Deploy' button. Below, the console output shows four steps: 'Checkout SCM' (1.6s), 'Build' (31ms), 'Test' (28ms), and 'Deploy' (26ms), each with a green checkmark. To the right, a dropdown menu shows 'Deploying build...' with a sub-item 'Deploying build...'. At the bottom, a pipeline graph shows the sequence: Start -> Checkout SCM (checked) -> Build (checked) -> Test (checked) -> Deploy (checked) -> End.</p>
16.	To build any python project (python script) in Jenkins

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	<p>Build Steps</p> <p>Automate your build process with ordered tasks like code compilation, testing, and deployment.</p> <div><p>☰ Execute Python script ?</p><p>Script</p><p>See the list of available environment variables</p><pre>fact=1 a=5 while a>0: fact=fact*a a=a-1 print(fact)</pre></div> <div><p>Started by user Rishabh Tripathi</p><p>Running as SYSTEM</p><p>Building on the built-in node in workspace C:\ProgramData\Jenkins\.jenkins\worksp</p><p>[RishabhQ16] \$ python C:\Windows\TEMP\jenkins9930150743568897007.py</p><p>120</p><p>Finished: SUCCESS</p></div>
17.	To build a Java Project without parameters and show how builds can be scheduled with some specific cron command

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	<div><div><div><div>✓ Build periodically ?</div><div>Schedule ?</div><div>H/5 * * * *</div><div>Would last have run at S</div><div><input type="checkbox"/> GitHub hook trigger for</div><div><input type="checkbox"/> Poll SCM ?</div></div></div><div><div>⌵ Execute Windows batch command ?</div><div>Command</div><div>See the list of available environment variables</div><div>cd C:\Users\Rishabh\OneDrive\Documents\RISHABH javac Hello.java java Hello</div><div>Advanced ▾</div></div></div>

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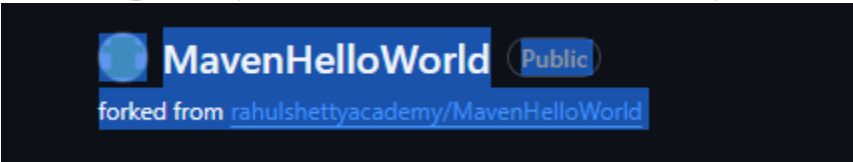
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	<div><pre>C:\Users\Rishabh\OneDrive\Documents\RISHABH>java Hello Hello, World! C:\Users\Rishabh\OneDrive\Documents\RISHABH>exit 0 Finished: SUCCESS</pre></div> <div><div> #4 1:31 PM</div><div> #3 1:27 PM</div></div> <p>For every 4-5 minutes you must see the builds getting done</p>
18.	<p>To build a Maven project in Jenkins and show how builds can be scheduled with some specific cron command</p> <p>Fork a repository named “MavenHelloWorld” by rahulshettyacademy</p> <div>A GitHub repository card for 'MavenHelloWorld' by 'Public'. It shows a blue GitHub logo, the repository name 'MavenHelloWorld' in white, and a 'Public' badge. Below the name, it says 'forked from rahulshettyacademy/MavenHelloWorld'.</div>

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	<div><div>Source Code Management</div><div>Connect and manage your code repository to automatically pull</div><div><div><div><input type="radio"/> None</div><div><input checked="" type="radio"/> Git ?</div></div><div>Repositories ?</div><div><div>Repository URL ?</div><div>https://github.com/R15habh15/MavenHelloWorld.git</div><div>Credentials ?</div><div>- none -</div><div>Advanced ▾</div><div>+ Add Repository</div></div></div><div><div>Branches to build ?</div><div><div>Branch Specifier (blank for 'any') ?</div><div>*/master</div><div>+ Add Branch</div></div><div><div>Repository browser ?</div><div>(Auto)</div></div><div><div>Additional Behaviours</div><div>+ Add</div></div></div></div>

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	<div><div><div><div>Build</div><div>Root POM ?</div><div><input type="text" value="pom.xml"/></div><div>Goals and options ?</div><div><input type="text" value="clean compile package"/></div><div>Advanced v</div></div><div><div><input checked="" type="checkbox"/> Build periodically ?</div><div>Schedule ?</div><div><input type="text" value="H/5 ****"/></div></div></div><div><div>[INFO] Finished at: 2025-11 [INFO] ----- Waiting for Jenkins to fini [JENKINS] Archiving C:\Prog [JENKINS] Archiving C:\Prog [JENKINS] Archiving C:\Prog [JENKINS] Archiving C:\Prog [JENKINS] Archiving C:\Prog channel stopped Finished: SUCCESS</div></div></div> <p>verify the war file by following below steps: Search for the below ss in the console output</p> <div><div>[INFO] Building war: C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ18\webapp\target\webapp.war</div></div> <p>Now run in the command prompt as dir <PATH Present in the above ss></p> <div><div>C:\Users\Rishabh>dir C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ18\webapp\target\webapp.war Volume in drive C is Windows-SSD Volume Serial Number is EEE6-AE09 Directory of C:\ProgramData\Jenkins\.jenkins\workspace\RishabhQ18\webapp\target 02-11-2025 15:18 2,056 webapp.war 1 File(s) 2,056 bytes 0 Dir(s) 230,336,651,264 bytes free</div></div>