Assignment 2

Jenkins Pipeline for Software Automation

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A Jenkins Pipeline is used to streamline the **building, testing, and deployment** process by automating each stage of software development.

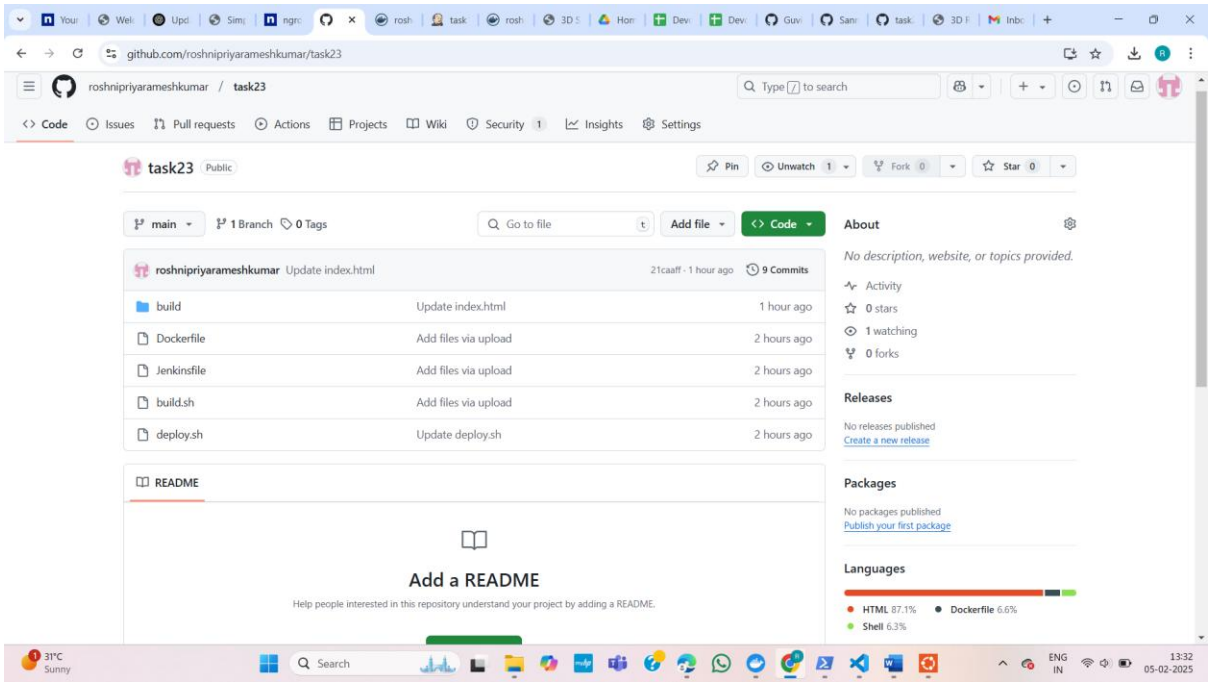
Step 1: Access Jenkins and Create a Pipeline

1. Sign in to Jenkins.
2. Navigate to **"New Item"** on the dashboard.
3. Provide a suitable name for the pipeline.
4. Select **"Pipeline"** as the project type.
5. Click **"OK"** to continue.

Step 2: Configure the Pipeline

Step 3: Specify the Pipeline Script

1. Choose **"Pipeline script from SCM"** under the **Pipeline Definition** section.
2. Select **"Git"** as the version control system.
3. Enter the repository URL containing the pipeline script.
4. Define the **script path** as Jenkins file



Console Output:

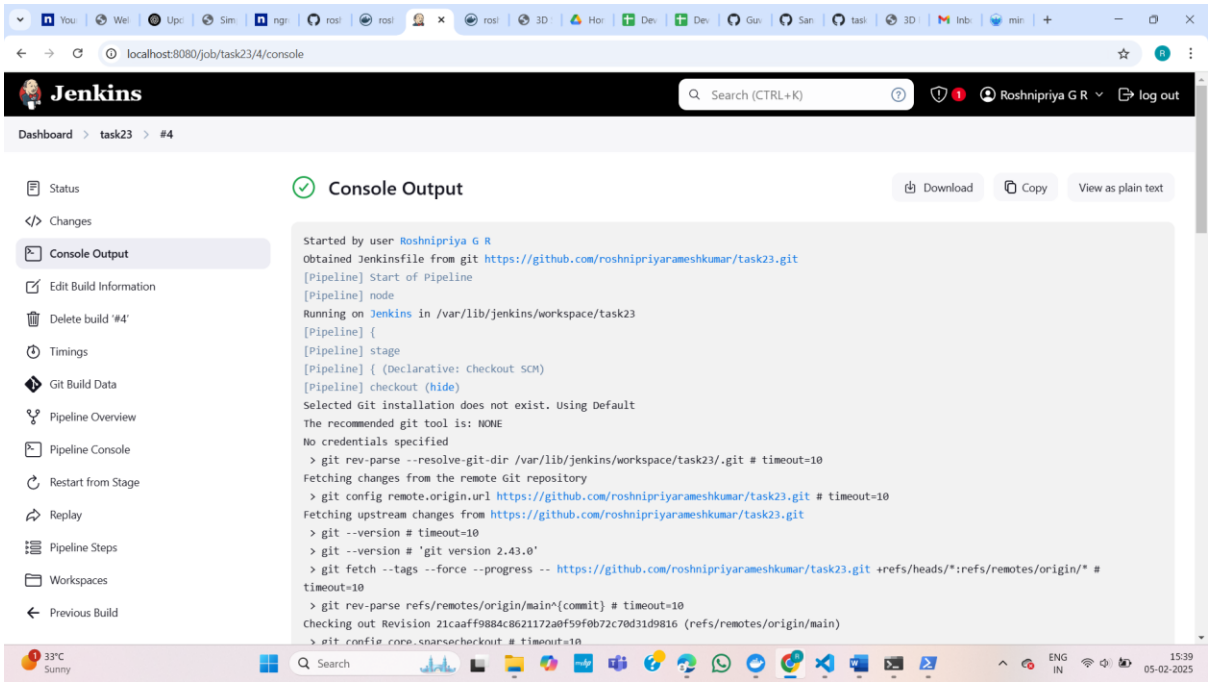
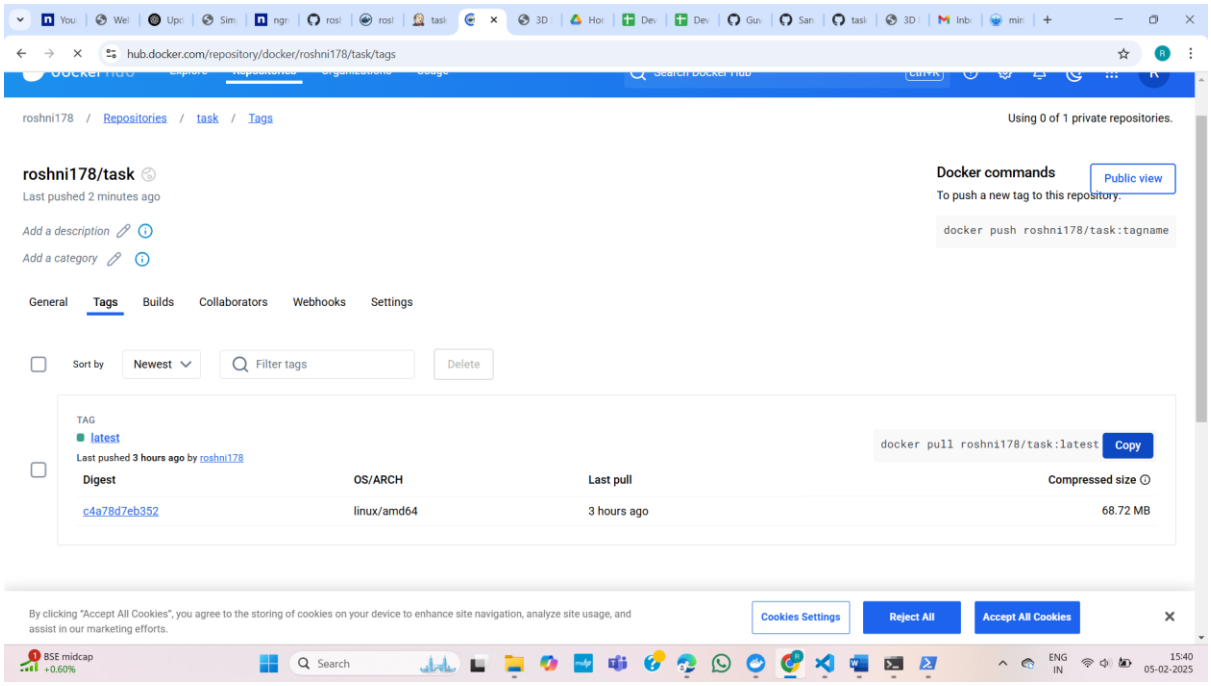
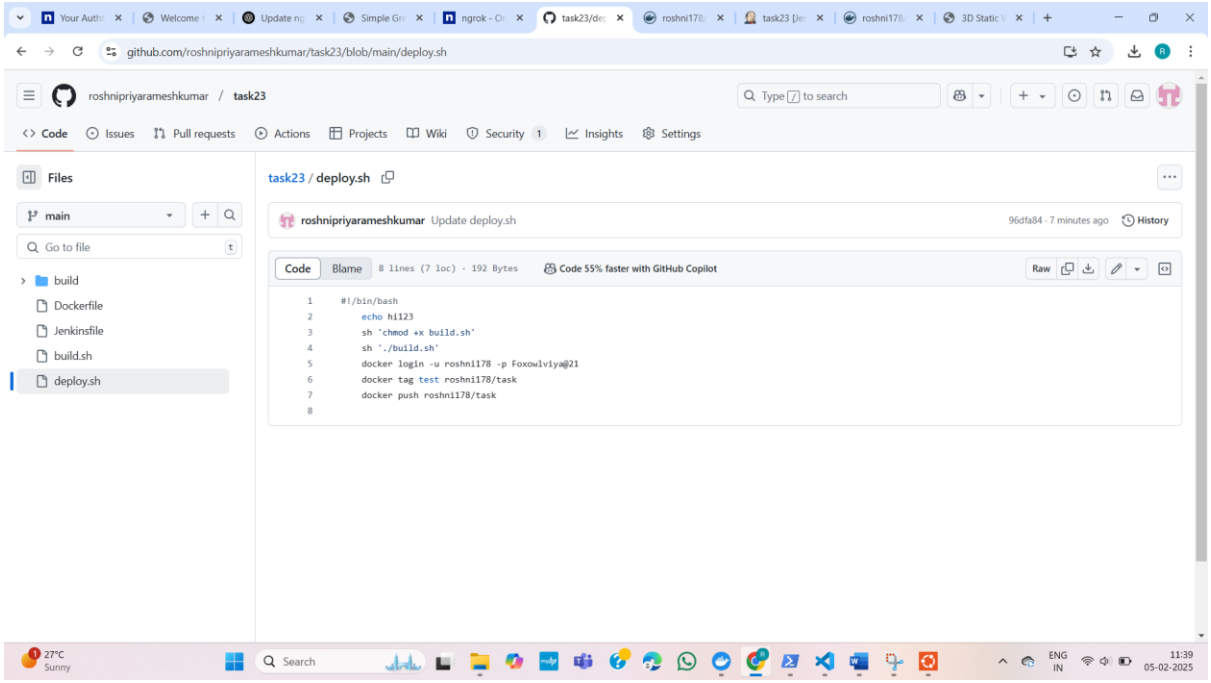
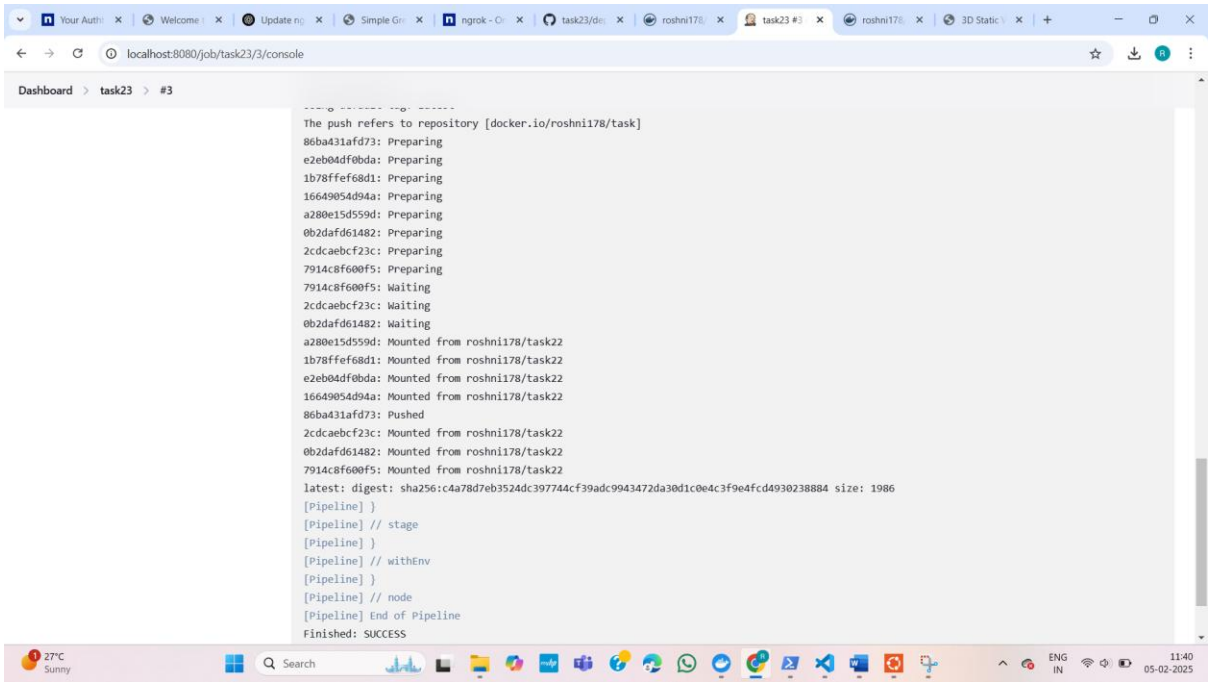


Image pushed in docker hub:






```
root@Abhinavkrishna:~# chmod 777 /var/run/docker.sock
root@Abhinavkrishna:~# docker pull roshni178/task:latest
latest: Pulling from roshni178/task
Digest: sha256:c4a78d7eb3524dc397744cf39adc9943472da30d1c0e4c3f9e4fcd4930238884
Status: Image is up to date for roshni178/task:latest
docker.io/roshni178/task:latest
root@Abhinavkrishna:~# docker run -itd -p 93:80 roshni178/task:latest
071ee852b8293b100d613133169df1ab0309310865d3f38f493d3c88e762b968
root@Abhinavkrishna:~#
```




```
root@Abhinavkrishna:~# systemctl start jenkins
root@Abhinavkrishna:~# chmod 777 /var/run/docker.sock
root@Abhinavkrishna:~# docker pull roshni178/task:latest
latest: Pulling from roshni178/task
Digest: sha256:c4a78d7eb3524dc397744cf39adc9943472da30d1c0e4c3f9e4fcd4930238884
Status: Image is up to date for roshni178/task:latest
docker.io/roshni178/task:latest
root@Abhinavkrishna:~# docker run -itd -p 93:80 roshni178/task:latest
071ee852b8293b100d613133169df1ab0309310865d3f38f493d3c88e762b968
root@Abhinavkrishna:~# docker run -itd -p 94:80 roshni178/task:latest
c90655501c01ae79e5378a9e70dc9b35393a2c1d78cb15556c2664b624e2830c
root@Abhinavkrishna:~#
```