TASK 2

**Step 1:** Open Jenkins and click **"New Item."**

**Step 2:** Enter a project name, select **"Pipeline,"** then click **OK.**

**Step 3:** In the **General** tab, scroll down to the **"Pipeline"** section.

**Step 4:** Under **"Definition,"** select **"Pipeline script from SCM."**

**Step 5:** In the **SCM** field, choose **"Git,"** then enter your GitHub repository URL.

**Step 6:** Ensure your GitHub repository contains the following files:

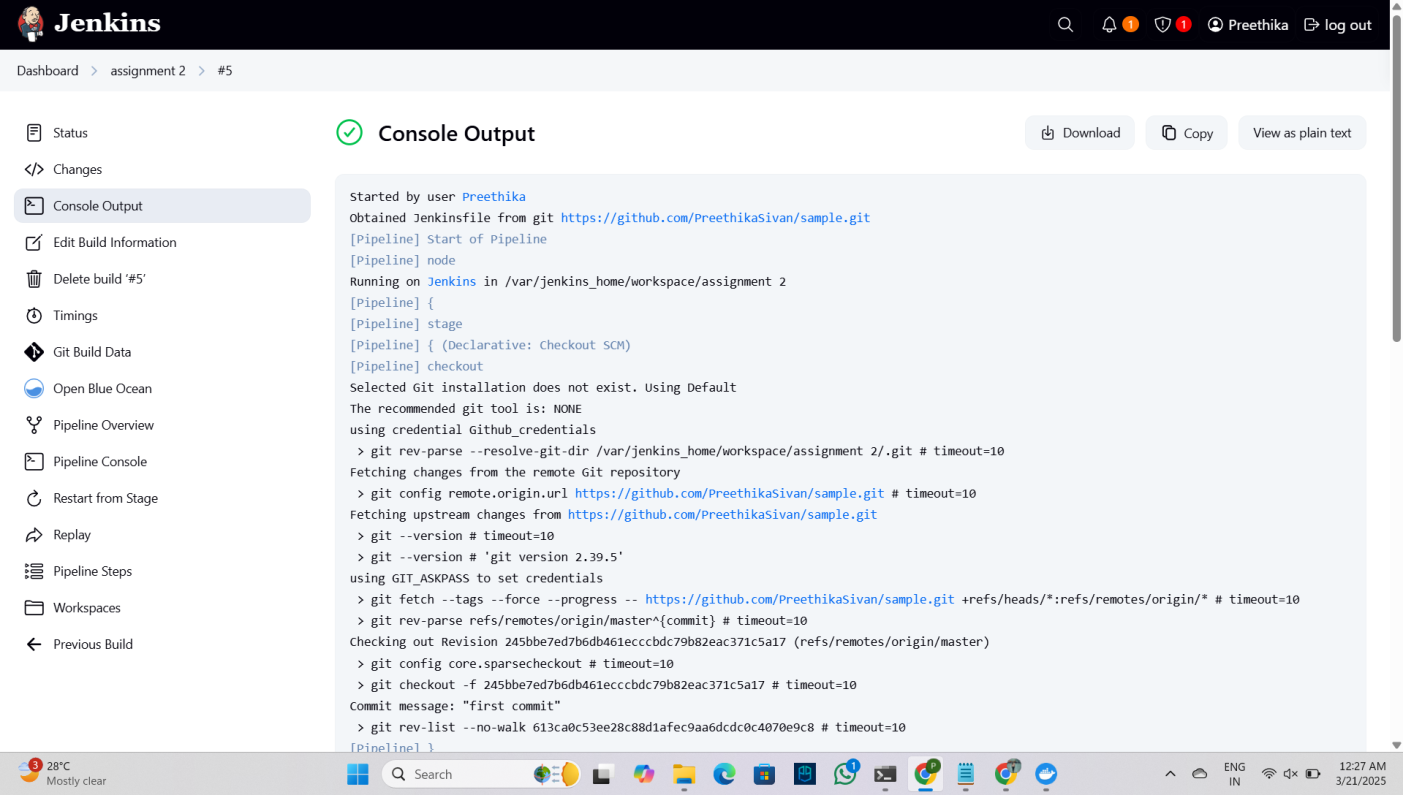
* app.py (Application code)
* Dockerfile (Instructions to build the Docker image)
* docker-compose.yml (For container orchestration)
* Jenkinsfile (Defines the pipeline stages)
* requirements.txt (Dependencies for the application)

**Step 7:** Click **"Save"** to apply the configuration.

**Step 8:** On the project page, click **"Build Now"** to start the job.

**Step 9:** The build status will appear in the **Build History** panel (left-side panel).

**Step 10:** Click on the latest build (#1, #2, etc.) and select **"Console Output"** to view logs and results.

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