Jenkins Pipeline to Deploy Docker Swarm Alogarithm:

- 1)Start of the Jenkins Pipeline.
- 2)Set up the Jenkins agent to run on any available node.
- 3)Define the tools used in the pipeline:
- Install and configure Maven with the label "M3."
- install and configure Java 1 with the label "java1."
- 4)Define the stages in the pipeline:
- Checkout from GitHub:Use the "git" command to clone the "awtraining1/sl" repository from the "main" branch.
- Maven Build:Navigate to the "PHASE5/my/spring-bootdemo" directory.Execute the "mvn clean package" command to build the Spring Boot application.The -Dmaven.test.skip=true flag skips running tests during the build.
- Docker Image Creation:Navigate to the "PHASE5/my/spring-bootdemo" directory.Build the Docker image using the Dockerfile.The Dockerfile uses an Alpine-based JDK 17 image, copies the packaged JAR file ("app.jar") into the image, and sets the entry point to run the JAR.
- Push Docker Image: Tag the Docker image with the name "my-morning-spring-app" using docker tag. Push the tagged Docker image to the
 Docker Hub repository "anithaneel/my-morning-spring-app" using docker push.
- 5)End of the Jenkins Pipeline