**Setting Up Jenkins Pipeline:**

**// SpringBootdemoAppApplication.java**

package com.example.demo;

import java.util.Random;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.ResponseBody;

@SpringBootApplication

public class SpringBootdemoAppApplication {

public static void main(String[] args) {

SpringApplication.run(SpringBootdemoAppApplication.class, args);

}

}

@Controller

class IndexController{

static String randomWebAppID= new String(new Random().toString());

@GetMapping("/")

@ResponseBody

public String index() {

return "[WEBAPPID "+ randomWebAppID + "] Hello World from Spring Boot Pipeline";

}

}

**//Application.properties:**

Server.port=8080

**//Dockerfile:**

FROM eclipse-temurin:17-jdk-alpine

VOLUME /tmp

COPY target/\*.jar app.jar

ENTRYPOINT ["java","-jar","/app.jar"]

**//pipelinescript**

pipeline{

agent any

}

stages {

stage('Checkout from GitHub') {

steps {

git branch: 'main', url: "https://github.com/awtraining1/sl.git"

}

}

stage('Maven Build') {

steps {

dir('PHASE5/my/spring-bootdemo') {

bat "mvn -Dmaven.test.skip=true clean package"

}

}

}

stage('Docker Image Creation') {

steps {

dir('PHASE5/my/spring-bootdemo') {

bat "docker build -t my-morning-spring-app --output type=docker ."

}

}

}

}

stage('Docker Hub Push') {

steps {

bat "docker tag my-morning-spring-app lavanya10/my-morning-spring-app"

bat "docker push lavanya10/my-morning-spring-app"

}

}

**Output Screens:**













