Sourcecode:

1)DockerswarmApplication.java

```java
package com;

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 DockerSwarmApplication {

        public static void main(String[] args) {
                SpringApplication.run(DockerSwarmApplication.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";
        }
}
```

2)application.properties

```
server.port=8080
```

3)Dockerfie

```
FROM eclipse-temurin:17-jdk-alpine
VOLUME /tmp
COPY target/*.jar app.jar
ENTRYPOINT ["java","-jar","/app.jar"]
```

4)pipelinescript

```
pipeline{



    agent any



    tools {
```

```
            //Install the Maven version configured as "M3" and add it to
the path.

            maven "Maven"

            jdk "java1"

        }



    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('Push Docker Image') {


        steps {

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

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

        }

        }


    }



}
```