**Source Code**

**DemoDockerController:**

package com.example.demodocker;

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

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

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

@RestController

public class DemoController {

@GetMapping("/greet/{name}")

public String greeting(@PathVariable String name) {

return "Hi!! " + name;

}

}

**DemoDockerApplication:**

package com.example.demodocker;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class DemoDockerApplication {

public static void main(String[] args) {

SpringApplication.run(DemoDockerApplication.class, args);

}

}

**Git repository is cloned:**  <https://github.com/sonam-niit/springboot-docker.git>

* Generated jar file
* Build an image on docker hub
* Run the image on container
* Automating the Process by integrating and deploying **Jenkins.**

**Command used:**

**To install docker:**

* sudo apt-get update
* sudo apt-get install ca-certificates curl gnupg lsb-release
* curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
* echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu $(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list /dev/null
* sudo apt-get update
* sudo apt-get install docker-ce docker-ce-cli containerd.io

**To install Jenkins:**

* curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null
* echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list > /dev/null
* sudo apt-get update
* sudo apt-get install Jenkins

To start Jenkins services

* sudo service jenkins start
* sudo service jenkins status

After this configuring Jenkins.