

### **DEVOPS Lab External Questions**

#### **SIMPLE QUESTIONS**

1. Write a code for simple User Registration form for an event.
2. Use Git and GitHub commands for developing a simple application and collaborating with team members effectively.
3. Implement branching and merging operations in Git and GitHub for collaborative development.
4. Install Jenkins perform initial setup, and explore the Jenkins environment for continuous integration and automation.
5. Explore and use essential Docker commands for managing images, containers, and volumes as part of content management in DevOps.
6. Write a simple program in JavaScript and perform testing using Selenium.

#### **COMPLEX QUESTIONS**

7. Develop a simple containerized application using Docker and all docker commands.
8. Automate the process of running containerized application using Kubernetes and Kubernetes commands.
9. Integrate Kubernetes and Docker for containerized application and commands to see docker is connected.
10. Install Selenium WebDriver and explore its use for automating basic web application testing and its commands.
11. Implement and demonstrate Continuous Integration and Continuous Deployment Using Jenkins and commands used for connecting github.
12. Develop Test Cases for the Containerized Application Using Selenium.

#### **ADDITIONAL QUESTIONS**

13. Develop a Mini Java Web App with Git Branching Strategy.
14. Develop a CI/CD Pipeline Using Jenkins to Build and Deploy a Node.js App
15. Write a test cases of your lab Project for WebApp Development.
16. Automated Web Testing with Selenium and Jenkins Integration.