- 1 Use Selenium web driver for functional web testing.
- 1a. Use Selenium IDE for functional web testing.
- 2. Jira for Agile Practices/Methodology.
- 3. Study and use UiPath Test Suite Tool for your project chosen in assignment 1.
- 4. Study and hands on sonar cloud (sonarqube tools) for project quality.
- 5. Enlist Agile tools available in FOSS and proprietary domains. compare the features of both lists in general.
- 6. Use cypress tool for QA/ automation testing, compare cypress tool with selenium tool.
- 7. What is scrum? What are the roles of scrum master? List of all the key ceremonies of a scrum team.
- 8. What is kanban? What are agile/devops frameworks? compare scrum vs kanban.
- 9. What Is DevOps? Give Top 8 Best Practices for Implementing DevOps. Give the list DevOps tools as per lifecycle.
- 10. Debug the a code using IDE: eclipse Tool (Java or python).
- 11.Use tools Jenkin tool (trail) version (online(cloud)/offline) for demonstration of CI/CD of project/mini project/code.
- 12. Use Tool Gitlab for Agile practice OR check and demonstrate the feature of Gitlab for CI/CD on sample codes.
- 13. Use tool Maven for learning and demonstrating the (dependencies) SDLC (software- dev-life cycle) for java codes/projects.
- 14. Use the dockers containers and kubernetes (Tools) for demonstration CI/CD.
- 15. Use the tool confluence for project documentation. Use it for collaboration. (Prepare assg no1 write-up using this tool)
- 16. Upload minimum 5 MCQ on agile tools and practices in doc format file.

Cypress:

- npm init
- npm install cypress -save-dev
- npx cypress open
- E2E testing
- Chrome
- Create specs

Web driver:

• Create package under Main as automation Package and

Then create a Java class.

And then code in it.

Gitlab:

Fork -> Build Run pipeline -> Run pipeline

Docker Kubernetes:

Docker image: mayursdocker10/asptl_img

Commands to run in CMD:

- 1. Create a folder and put the following in it:
 - a. Git pull

https://github.com/shedmekhe/Dockerised-Kubernetes-deployed-Website

- b. docker build -t your_docker_username/image _name .
- c. docker login
- d. docker push your_docker_username/image_n
 ame
- e. minikube start
- f. kubectl apply -f deployment.yaml
- g. kubectl apply -f service.yaml

At last run this command on CMD

h. port-forward service/static-webpage-service 3 000:80

And site gets access on localhost:3000