

Devops

LAB PRGM-1

- > create a folder -> txt file
- > open the folder in git bash
- > git init
- > git branch -m main *rename the default branch to 'main'*
- > git config --local user.email "20cse0140@vvce.ac.in"
- or
- git config --local user.name "____"
- > git add hello.txt *storing once*
- > git commit -m "committed"
- > git remote add origin "https://....."
- if origin already exist -
- git remote remove origin
- git remote add origin "https://....."
- > git push origin main
- > perform some changes
- > git clone "https://..."
- > git status
- > git log
- > git reset --hard *Reset the repository to previous state)*

clone-new file

pull-existing file

LAB PRGM-2

- > create a folder

- > add txt file
- > git init
- > git add .
- > git commit -m "first commit"
- > git checkout -b "branch1"
- > edit the txt(dont change the entire txt)
- > git add .
- > git commit -m "second commit"
- > git checkout "master"
- > edit -> save
- > git add .
- > git commit -m "third commit"
- > git diff branch1 master
- > git merge branch1
- > change
- > git add .
- > git commit -m "hsdhsde"
- > git merge branch1

LAB PRGM-3

- > create a folder
- > VS code - open the folder created - create a python file


```
print("Hello world")
```
- > github - create repository
- > open gitbash in the folder

commands

```
git init
```

```
git config --local user.email "20cse0140@vvce.ac.in"
```

```
git add .
```

git commit -m "committed"

git remote add origin "https://..."

if origin already exist

git remote remove origin

git remote add origin "https://....."

git push origin master

-> open jenkins(browser - localhost:8080 -> username-admin passwords-(prog files->jenkins->.err file->copy the credentials) - 77200362a5234caa9a214b167b3b3812

-> new item

-> name -> freestyle -> ok

-> git project -> paste the url of github repo

-> poll SCM-(* * * *)

-> save

-> Build now

LAB PRGM-4

B1

-> create folder

-> vs code -> open folder

-> create a java file - hello.java

-> write a code \rightarrow write java code

-> create - Dockerfile

FROM openjdk

WORKDIR /app

COPY . /app

RUN javac hello.java

CMD ["java", "hello"]

- -> terminal

javac hello.java

java hello

\rightarrow to check the
Prog

```
public class sample {  
    public static void main  
        (String args[]) {  
        System.out.println("Test");  
    }  
}
```

docker build -t womba .

docker images - to see image.

docker run --name javaapplication java:simple
user defined womba

LAB PRGM-5 B2

first cmd

(-> docker

-> search -> mysql -> pull

-> open cmd

*first cmd

6 docker run mysql

docker run -e MYSQL_ROOT_PASSWORD="root123" -d mysql

*sec cmd -> input containers.

docker container ls

docker inspect //name//

(copy the ip address)

*third cmd -> client model

• docker run -it mysql /bin/bash

mysql -h //paste the ip address// -u root -p

root123

show databases;

• docker container ls

-> To stop server container -> docker stop //id of container running//
to check no. of container: docker container ls

LAB PRGM-6 : show database;

-> create folder

-> vs code -> open folder

-> create a java file - hello.java

-> write a code

-> create - Dockerfile

FROM openjdk

WORKDIR /app

COPY . /app

RUN javac hello.java

CMD ["java","hello"]

-> terminal

javac hello.java

java hello

docker build -t repository_name .

docker images

docker tag repository_name docker_username/newname:v1.9

(newname-lowercase only)

docker images

docker push docker_username/newname:v1.9

-> dockerhub -> repository -> refresh

LAB PRGM-7

c1 . maven project

-> Open eclipse

-> File -> new -> other -> maven -> maven project -> Next -> next -> all catalog -> maven-archetype-quickstart(org) -> next -> both same(readdatafromjson) -> finish

-> // in the console - Y //

readdatafromjson -> right click -> new -> file -> name(student.json) -> finish (get student.json in the list)

{"firstname" : "puneeth",

"lastname" : "shaiva"} - save

-> browser - maven repository

-> search bar - simple JSON

-> click on JSON.simple -> 1.1.1 -> copy the code

-> back to eclipse -> pom.xml -> replace dependency by the copied code -> save

-> readdatafromjson -> src/main -> readdatasort pkg -> right click -> new -> class -> readjson.java

-> paste the code

code

```
package readdatafromjson.readdatafromjson;
```

```
import java.io.FileReader;
```

```
import java.io.IOException;
```

```
import java.text.ParseException;
```

```
import org.json.simple.JSONObject;
```

```
import org.json.simple.parser.JSONParser;
```

```
public class readjson {
```

```
    public static void main(String[] args) throws IOException, ParseException, org.json.simple.parser.ParseException {
```

```
        FileReader reader = new FileReader("student.json");
```

```
        JSONParser jsonParser = new JSONParser();
```

```
        JSONObject studentObj = (JSONObject) jsonParser.parse(reader);
```

```
        String fname = (String) studentObj.get("firstname");
```

```
        String lname = (String) studentObj.get("lastname");
```

```
        System.out.println("First Name: " + fname);
```

```
        System.out.println("Last Name: " + lname);
```

```
        reader.close();
```

```
    }
```

```
}
```

~~LAB PRGM 8~~ C2

-> Jenkins -> sign in (user-admin, password-prgmfiles->jenkins->.err->copy credentials)

-> manage jenkins -> plug-ins -> available plug-ins -> search (slack) ->

(if not installed -> installed plug-ins -> right top -> install -> available plug-ins -> search (slack))

↪ click on slack -> 2nd link -> type (#devops-demo) -> add jenkins

-> copy redentials (step 3)

-> save settings

-> prev tab

↪ manage jenkins

↓
-> system

↓
-> under slack

workspace : vcegroup

credentials : add -> jenkins -> secret txt (sec drop down) -> paste the credentials (secret) ->

add -> drop down (select secret text) -> save ^{configure}

↪ -> new item -> name -> fresstyle -> ok -> build steps -> execute window batch command (java -- version) -> post -> build (slack notifications - check all)

-> save -> build now

↪ click on slack notification

name = slack notification

LAB PRGM-9 C3 Pun> Amit

-> browser -> selenium download -> click on java -> save -> extract

-> select browser -> chrome -> documentation

-> older releases -> downloads -> chrome for Testing availability > stable

-> chromedriver win64 -> copy and paste the link in new tab -> save -> extract -> extract from zip file

open eclipse > create a java project (with default setting)
Selenium project 1

(-> File -> new -> other -> Maven -> Maven Project -> next -> next -> maven-archetype-quickstart
(select org) -> name for id's (selenium))

= Selenium project 1

(-> selenium -> right click -> build path -> configure build path -> lib -> module path -> add external
jars -> selenium (select all except lib) -> open -> apply and close)

step 2

java
folder

-> again right click -> build path -> configure build path -> modulepath -> lib -> select all -> open -> apply and close

different one (selenium driver) -> src/main/java
-> selenium -> src -> right click -> new -> class -> Launchchrome -> finish

-> copy paste the code

```
package selenium.selenium;
```

```
import java.time.Duration;
```

```
import java.util.concurrent.TimeUnit;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.chrome.ChromeDriver;
```

```
public class Launchchrome Chromelauncher {
```

```
    public static void main(String[] args) throws InterruptedException {
```

```
        //TODO Auto-generated method stub
```

```
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\wwwpr\\Downloads\\chromedriver-  
win64\\chromedriver.exe");
```

```
        ChromeDriver driver = new ChromeDriver();
```

```
        driver.manage().window().maximize();
```

```
        driver.get("http://www.vvce.ac.in/");
```

```
        //Thread.sleep(100);
```

```
        driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
```

```
        driver.findElement(By.xpath("//span[text()='x'][1]")).click();
```

```
        //System.out.println(driver.getTitle());
```

```
    }
```

```
}
```

(ctrl+f) - to find Xpath in input

convert it into pdf & upload github