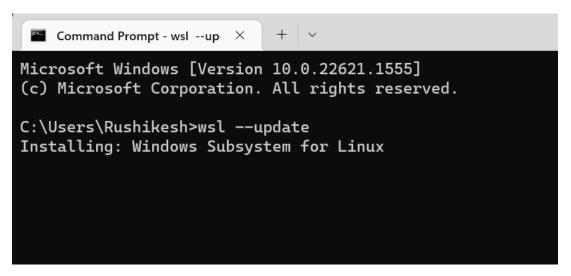
Devops 8

Demonstrate use of docker commands to pull ubuntu official image, create a file and push updated image on Dockerhub.

1) Docker Installation from chrome

2)



If above command doesn't work

To be sure of getting updates to the WSL2 kernel:

- 1. Open Settings > Update & recovery > Windows Update.
- 2. Click on "Advanced options"
- 3. Enable "Receive updates for other Microsoft products when you update Windows"
- 4. Returning to the previous page in Settings, click "Check for updates".

3)

C:\Users\Rushikesh>docker login
Authenticating with existing credentials...
Login Succeeded

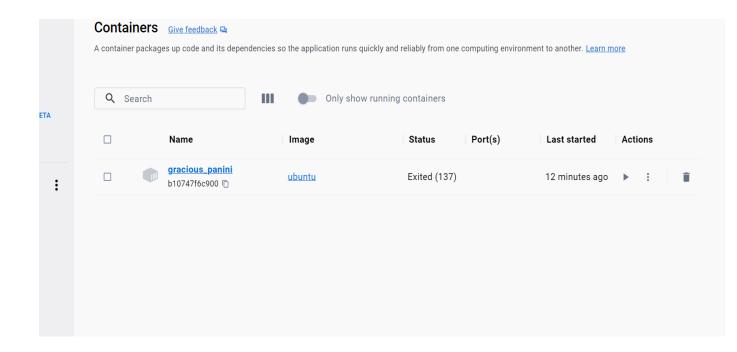
Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/

C:\Users\Rushikesh>docker run -it -d ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
2ab09b027e7f: Pull complete
Digest: sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21
Status: Downloaded newer image for ubuntu:latest
b10747f6c90052c5325ec30c78165d98f63ed445522ddbbc12fc7455be185edc

C:\Users\Rushikesh>docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
Digest: sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21
Status: Image is up to date for ubuntu:latest
docker.io/library/ubuntu:latest

C:\Users\Rushikesh>docker images REPOSITORY IMAGE ID TAG CREATED SIZE 77.8MB ubuntu latest 08d22c0ceb15 6 weeks ago C:\Users\Rushikesh>docker tag 08d22c0ceb15 "docker tag" requires exactly 2 arguments. See 'docker tag --help'. Usage: docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG] Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE C:\Users\Rushikesh>docker tag 08d22c0ceb15 Rushikeshs187/ubuntu
Error parsing reference: "Rushikeshs187/ubuntu" is not a valid repository/tag: invalid reference format: repository name must be lowercase C:\Users\Rushikesh>docker tag 08d22c0ceb15 rushikeshs187/ubuntu C:\Users\Rushikesh>docker images IMAGE ID REPOSITORY TAG CREATED SIZE 77.8MB 08d22c0ceb15 ubuntu latest 6 weeks ago rushikeshs187/ubuntu 77.8MB latest 08d22c0ceb15 6 weeks ago C:\Users\Rushikesh>

C:\Users\Rushikesh>docker push rushikeshs187/ubuntu:latest The push refers to repository [docker.io/rushikeshs187/ubuntu] b93c1bd012ab: Mounted from library/ubuntu latest: digest: sha256:5523f822d85895b0a75236aba20ff6bf4135721b031fceee7a5c4a74a700c1e6 size: 529 C:\Users\Rushikesh>docker ps CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES b10747f6c900 ubuntu "/bin/bash" 6 minutes ago Up 6 minutes gracious_panini C:\Users\Rushikesh>docker stop b10747f6c900 b10747f6c900 C:\Users\Rushikesh>

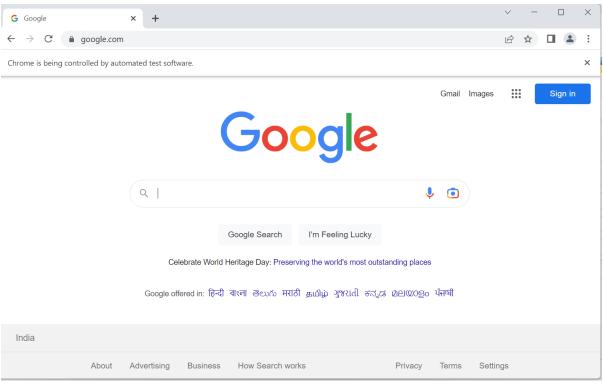


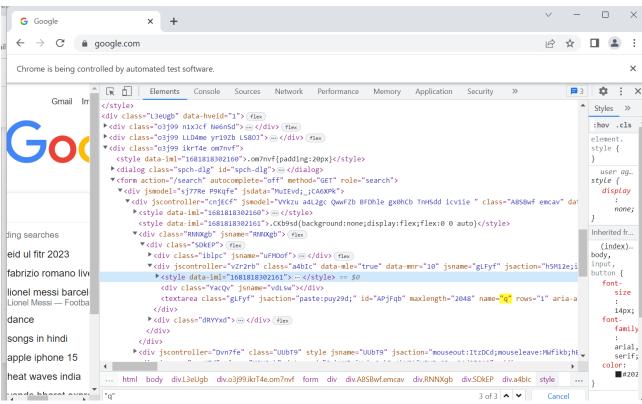
Devops – 6

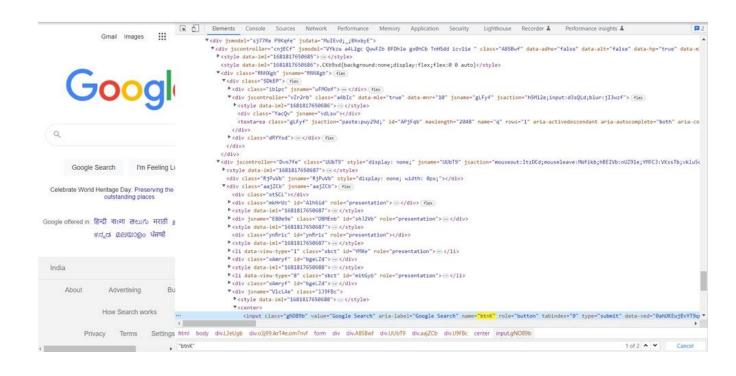
6. Write a Selenium script to perform automated testing.

```
Command Prompt
Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Rushikesh>mkdir my-webapp-test
C:\Users\Rushikesh>cd my-webapp-test
C:\Users\Rushikesh\my-webapp-test>python -m venv venv
C:\Users\Rushikesh\my-webapp-test>source venv/bin/activate
'source' is not recognized as an internal or external command, operable program or batch file.
C:\Users\Rushikesh\my-webapp-test>venv/bin/activate
'venv' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\Rushikesh\my-webapp-test>call venv\\Scripts\\activate
(venv) C:\Users\Rushikesh\my-webapp-test>pip install selenium
Collecting selenium
  Downloading selenium-4.8.3-py3-none-any.whl (6.5 MB)
                                               - 6.5/6.5 MB 2.0 MB/s eta 0:00:00
Collecting trio~=0.17
  Downloading trio-0.22.0-py3-none-any.whl (384 kB)
                                              - 384.9/384.9 kB <mark>6.0 MB/s</mark> eta 0:00:00
Collecting urllib3[socks]~=1.26
```

```
In [41]: from selenium import webdriver
In [42]: from selenium.webdriver.common.by import By
In [43]: from selenium.webdriver.common.keys import Keys
In [44]: import time
In [45]: driver = webdriver.Chrome()
In [50]: driver.get("https://www.google.com/")
In [51]: driver.close()
```







Devops — 7-Create an image of php project and push on Dockerhub repository

index.php file (If html code throws errors try in notepad)

Dockerfile:

create a file called Dockerfile (without any extension) and write the below code into the file. Now with Docker file let construct an image.

```
Dockerfile > ...

1 FROM php
2 COPY ./index.php ./
3 EXPOSE 3000
4 CMD ["php", "-S", "0.0.0.0:3000"]
```

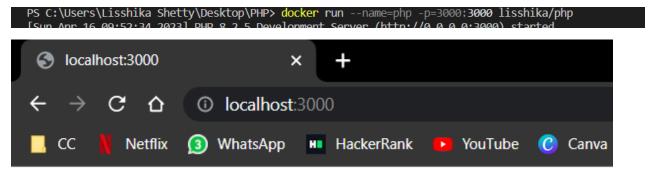
docker build:

docker build .-t rushikeshs187/php

```
PS C:\Users\Lisshika Shetty\Desktop\PHP> docker build . -t lisshika/php
[+] Building 74.6s (7/7) FINISHED

=> [internal] load build definition from Dockerfile
```

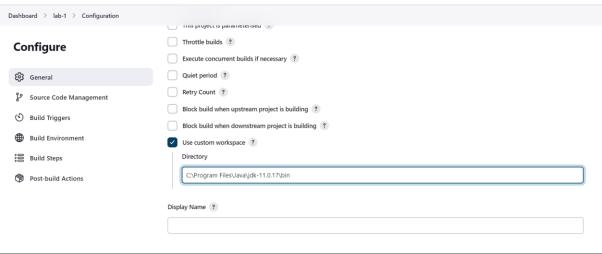
docker run -name=php -p=3000:3000 rushikeshs187/php



Hello World from a PHP container

Devops - 2

Demonstrate Building java program (addition of 2 numbers) through Jenkins.



```
class Main {
  public static void main(String[] args) {
    int first = 10;
    int second = 20;

    // add two numbers
    int sum = first + second;
    System.out.println(first + " + " + second + " = " + sum);
  }
}
```

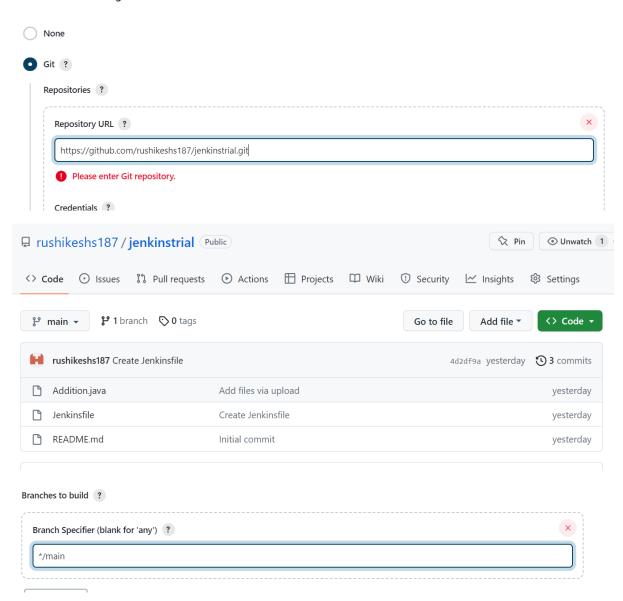
Note Class with be the name of the file

Dashboard > lab-1 > Configuration	
Configure	Build Steps
ලි General	 Execute Windows batch command ? Command See the list of available environment variables
(5) Build Triggers	javac Addition.java java Addition
Build Environment	
Build Steps	
Post-build Actions	Advanced
	Add build step 🔻

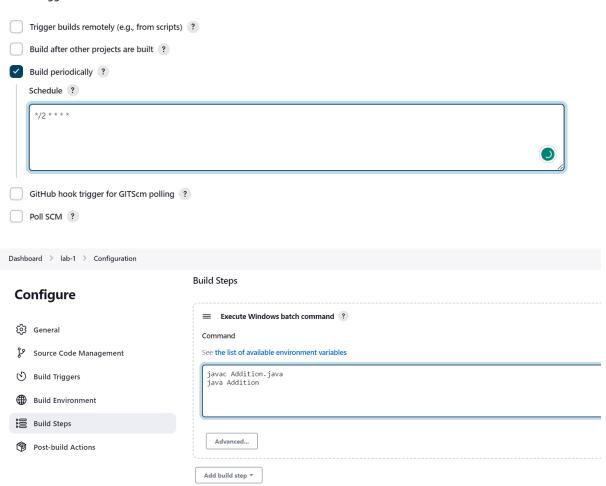
Devops – 3

Demonstrate Continuous Integration process in Jenkins. Build a java program every 2 minutes (addition of two numbers) residing in Github repository.

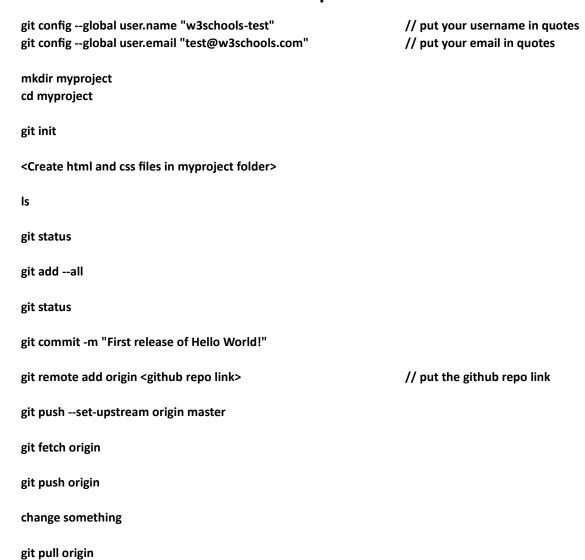
Source Code Management



Build Triggers



Devops - 1



MINGW64:/c/Users/Rushikesh/myproject

```
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~ (master)
$ git config --global user.name "rushikeshs187"
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~ (master)
$ git config --global user.email "rushikeshs187@gmail.com"
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~ (master) $ mkdir myproject
Rushikesh@LAPTOP-P96990S0 MINGW64 ~ (master)
$ cd myproject
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git init
Initialized empty Git repository in C:/Users/Rushikesh/myproject/.git/
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ 1s
index.html styling.css
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
   index.html
   styling.css
nothing added to commit but untracked files present (use "git add" to track)
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git add --all
```

```
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git status
On branch master
No commits yet
Changes to be committed:

(use "git rm --cached <file>..." to unstage)
              new file: index.html
new file: styling.cs
                                styling.css
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git commit -m "First release of Hello World!"
[master (root-commit) 5400b16] First release of Hello World!
 2 files changed, 25 insertions(+) create mode 100644 index.html create mode 100644 styling.css
 Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
 $ git remote add origin https://github.com/rushikeshs187/my_projectss.git
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git push --set-upstream origin master
Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (4/4), done.

Writing objects: 100% (4/4), done.

Writing objects: 100% (4/4), 472 bytes | 472.00 KiB/s, done.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/rushikeshs187/my_projectss.git

* [new branch] master -> master
* [new branch] master -> master
branch 'master' set up to track 'origin/master'.
 Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git fetch origin
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git push origin
Everything up-to-date
```

```
Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
$ git pull origin
sgit pull origin
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 705 bytes | 30.00 KiB/s, done.
From https://github.com/rushikeshs187/my_projectss
    5400b16..c4876a5 master -> origin/master
Updating 5400b16..c4876a5
Fast-forward
Fast-forward
  index.html | 4 +
   1 file changed, 2 insertions(+), 2 deletions(-)
 Rushikesh@LAPTOP-P9699QSQ MINGW64 ~/myproject (master)
```