

① step-by-step create GitHub Account :-

go to chrome browser

↓

Search <https://github.com>

↓

Click on sign up (New user)

↓

Enter your details

↓

email address

password (create password)

↓

Verify your account

and continue

↓

Your account is created

successfully

* * * * *

② Exploring Git commands through collaborative coding :-

Setting up git repository

↓

download and install git

↓

— configure git —

git config --global user.name Durgesh-20

git config --global user.email maandurgesh24@gmail.com

↓

create new directory and initialize git

↓

mkdir project1

↓

cd project1

↓

git init

Creating and committing changes - 12/12/19

↓
echo "Welcome" > file1.txt

↓
git add file1.txt

↓
git status

↓
git commit -m "successful committed"

↓
git remote add origin link paste

↓
git push origin master

Branching and merging

↓
git branch branchdm

git checkout branchdm

↓
touch page.txt
touch page.htm

↓
git add .

↓
git status

↓
git commit -m "successfully
committed all files"

↓
git push origin branchdm

↓
git merge branchdm

③ Implement GitHub Operations Using Git :- cloning repository

git clone (link paste here)

making changes and creating Branch

git branch branchdm2

git checkout branchdm2

echo "this is new file" > new.txt

git add new.txt

git status

git commit -m "added new.txt
file"

push OR pull changes to github

git push origin branchdm2

git pull origin branchdm2

④ Step-by-step docker account creation:-

go to chrome browser

↓

search or open link

<https://hub.docker.com/signup>

enter details

- username

- email

- password

↓

click sign up

↓

verify email

↓

docker account created successfully

⑤ Demonstrate practical on Version control Tools:-

mkdir project2

↓

cd project2

↓

git init

↓

echo "my first repo" > index.txt

↓

git add index.txt

git status

↓

git commit -m "done ok"

↓

echo "this is git session" >> index.txt

↓

git status

↓

git diff

↓

git add index.txt

↓

git commit -m "updated index with session info"

↓

git log

↓

git remote add origin (paste link here)

↓

git branch -m master

↓

git push -u origin master

** ** *

⑥ Create a merge request on gitLab and review the merge request :-

git clone (link paste here)

↓

cd dungu

↓

git branch super

↓

git checkout super

↓

echo "my new git repo" > dm.txt

↓

git add dm.txt

↓

git commit -m "added dm.txt"

↓

git push origin super

** ** *

⑦

To study docker file instructo build an image
for a sample web application using
docker file.

Page No.

Date

** Command prompt

```
> mkdir docker-Webapp
```

```
> cd docker-Webapp
```

```
> notepad index.html
```

notepad:

```
<!DOCTYPE html>
<html>
<head>
<title> My first Docker App </title>
</head>
<body>
<h1><b> Happy Diwali </b></h1>
</body>
</html>
```

Command prompt > notepad Dockerfile

notepad:

```
FROM nginx
```

```
COPY index.html /usr/share/nginx/html
```

```
EXPOSE 80
```

```
CMD ["nginx", "-g", "daemon off;"]
```

go to Drive >> users >> IPRD >> Filename (ex. ~~docker-Webapp~~ Dockerfile.txt)
>> Select file >> view >> file name extension >> click
>> rename it >> without any extension >> Dockerfile.

Command prompt

```
> docker build -t myWebapp .
```

```
> docker run -d -p 8080:80 mywebapp
```

Run on

Chrome >>

http://localhost:8080