Pra 2nd Exploring git commands

A. Create a file demo-repo on git hub

Git clone <link>

Cd demo-repo

Echo “Hello.Git” > hello.txt

Git status

Git add hello.txt

Git commit -m “Added hello file”

Git push origin main

B. Branching & Merging

Git checkout -b feature1

Echo “Feature branch work” >> hello.txt

Git add .

Git commit -m “Updated hello file from feature1”

Git push origin feature1

C. Merge to Main Branch

Git checkout main

Git merge feature1

Git add .

Git commit -m “Resolved merge conflict”

Git push origin main

Pra 3rd Implement Github Operation using Git

Git clone url

Cd repo-name

Git checkout -b new-fearture

Echo “This is a new feature “ >feature.txt

Git status

Git add .

Git commit -m “Added new feature file”

Git push origin new-feature

Git checkout main

Git pull origin main

Git checkout new-feature

Git merge main

Git add .

Git commit -m “Resolved merge conflicts”

Pra 5th Version control tools demonstration

Git config –global user.name “ your name”

Git config –global user.email youremail@gmail.com

Mkdir version_control_demo

Cd version_control_demo

Git init

Echo “Hello version control” > demo.txt

Git status

Git add demo.txt

Git commit -m “Initial commit with demo.txt”

Git checkout -b new-feature

Echo “Added new feature” >> demo.txt

Git add demo.txt

Git commit -m “updated demo.txt with feature”

Git checkout main

Git merge new-feature

Git add .

Git commit -m “Resolved merge conflict”

Git log

Git diff

Git branch

Pra 6th Gitlab merge request

Git clone url

Cd demo-gitlab

Git checkout -b feature-branch

Echo “This is a feature” > feature.txt

Git add .

Git commit -m “Added feature.txt”

Git push origin feature-branch

Git checkout feature-branch

Git fetch

Git merge main

Git push origin –delete feature-branch

Pra 7th Build an image for a sample web application using docker file.

- myapp/

├── app.py

└── requirements.txt – flask

- App.py

```
from flask import Flask
app = Flask(_name_)

@app.route("/")
def home():
    return "Hello from Docker!"

if _name_ == "_main_":
    app.run(host="0.0.0.0", port=5000)
```

- Dockerfile

```
FROM python:3.9-slim
WORKDIR /app
COPY requirements.txt .

RUN pip install -r requirements.txt
COPY . .
```

EXPOSE 5000

CMD ["python", "app.py"]

- cd myapp
- docker build -t myflaskapp .
- docker run -d -p 5000:5000 myflaskapp
- http://localhost:5000