21/07/2002

VIJAY M

1.Open Git bash shell and create a new folder "**GitDemo**" and initialize as git repository

2.Git bash initializes the "**GitDemo**" repository.

```
ijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson
mkdir Gitdemo

ijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson
cd Gitdemo

ijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo
git init
nitialized empty Git repository in C:/Users/vijay.m/Documents/day task image/da
11_handson/Gitdemo/.git/

ijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (maste
)
```

3.Create a file **"welcome.txt"** and add content to the file (use echo or cat command)

```
vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (maste
r)
$ echo "hello welcome to git bash" >welcome.txt

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (maste
r)
$ cat welcome.txt
hello welcome to git bash
```

4.To verify if the file "welcome.txt" is created, execute ls-al

```
vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (maste
r)
$ ls -al
total 5
drwxr-xr-x 1 vijay.m 1049089  0 Jul 21 16:47 ./
drwxr-xr-x 1 vijay.m 1049089  0 Jul 21 16:37 ../
drwxr-xr-x 1 vijay.m 1049089  0 Jul 21 16:38 .git/
-rw-r--r-- 1 vijay.m 1049089 13 Jul 21 16:49 hello.txt
-rw-r--r-- 1 vijay.m 1049089  0 Jul 21 16:47 welcome.txt
```

5.To verify the content, execute the command cat filename

```
$ cat welcome.txt
vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (maste
r)
$ cat hello.txt

"hello"
```
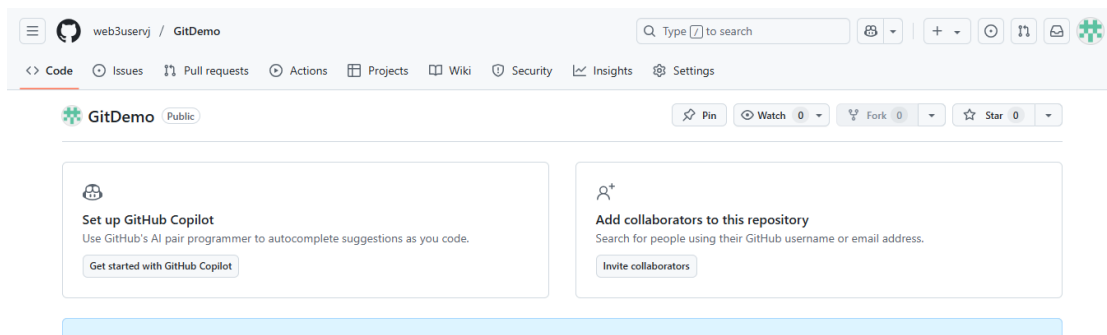
6.Execute git status

```
vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (mast
r)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        hello.txt
        welcome.txt

nothing added to commit but untracked files present (use "git add" to track)
```

7.Signup with GitHub and create a remote repository **"GitDemo"**

8.Add remote origin

```
vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (maste
r)
$ git branch -M main

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git remote add origin https://github.com/web3uservj/GitDemo.git

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ |
```

9.Crete files and and push the local to remote repository.

```
vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git add .
warning: in the working copy of 'hello.txt', LF will be replaced by CRLF the nex
t time Git touches it

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ ^C

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   hello.txt
        new file:   welcome.txt


vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git commi-m "first commit'
> "
git: 'commi-m' is not a git command. See 'git --help'.

The most similar command is
        commit

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git commit -m"first commit"
[main (root-commit) 08c030d] first commit
 2 files changed, 6 insertions(+)
 create mode 100644 hello.txt
 create mode 100644 welcome.txt

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 263 bytes | 87.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/web3uservj/GitDemo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$
```

10.Make changes in the remote and pull the changes to the local.

```
vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 961 bytes | 35.00 KiB/s, done.
From https://github.com/web3uservj/GitDemo
   08c030d..39e15b5  main         -> origin/main
Updating 08c030d..39e15b5
Fast-forward
 welcome.txt | 1 +
 1 file changed, 1 insertion(+)
```
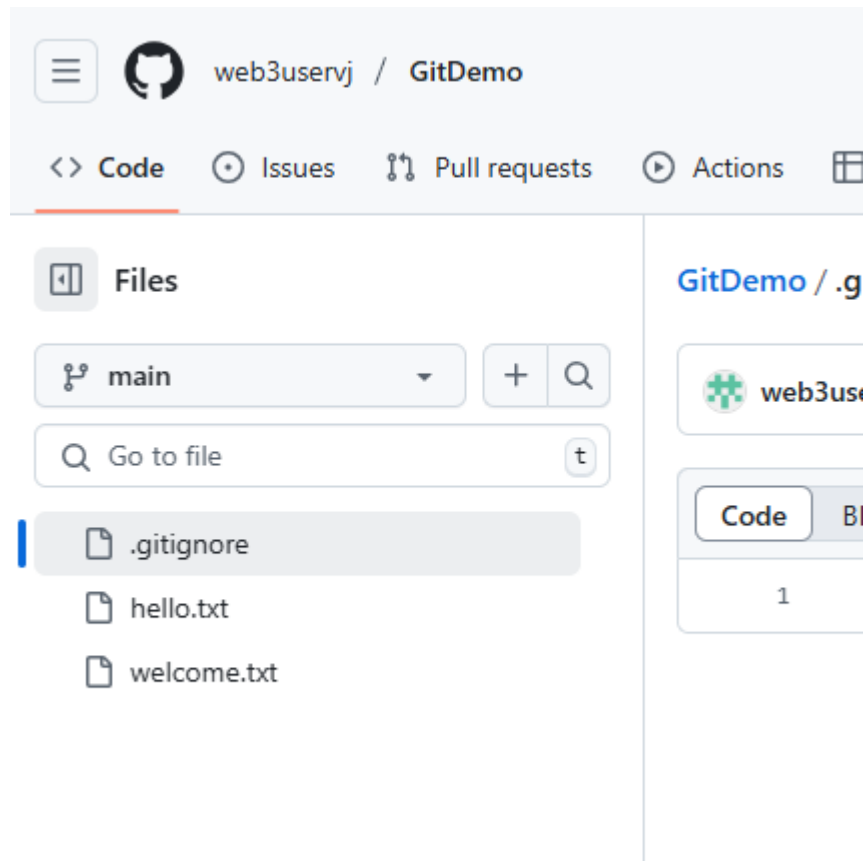
11.Create a .gitignore file to ignore contents of temp folder

```
ijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
 git commit -m"test file"
n branch main
our branch is up to date with 'origin/main'.

othing to commit, working tree clean

ijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
 git push
verything up-to-date

ijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
|
```

web3uservj / GitDemo

<> Code   ⊙ Issues   ⑂ Pull requests   ⊙ Actions   ⊞

⊡ Files   GitDemo / .g

⌥ main   ▼   +   Q   ✳ web3us

Q Go to file   t

  ⬚ .gitignore   Code   Bl

  ⬚ hello.txt   1

  ⬚ welcome.txt

Docker

1.   What is Docker-compose.yaml file? Give sample docker-compose file.

```
vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git push
Everything up-to-date

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ touch Docker-compose.yaml

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ nano Docker-compose.yaml

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ ^C

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ nano Docker-compose.yaml

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git add .
warning: in the working copy of 'Docker-compose.yaml', LF will be replaced by CRLF the next time Git touches it

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git commit -m "docker compose"
[main eafc788] docker compose
 1 file changed, 33 insertions(+)
 create mode 100644 Docker-compose.yaml

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 819 bytes | 409.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/web3uservj/GitDemo.git
   fa4f3d8..eafc788  main -> main

vijay.m@PTPLL605 MINGW64 ~/Documents/day task image/day11_handson/Gitdemo (main)
$
```



```yaml
 6      image: nginx:latest  # Use the official Nginx image
 7      container_name: web_server
 8      ports:
 9        - "8080:80"  # Map port 8080 on the host to port 80 on the container
10      volumes:
11        - ./html:/usr/share/nginx/html  # Mount local directory ./html to the container
12      networks:
13        - mynetwork  # Connect the container to the 'mynetwork'
14
15    # Service 2: MySQL database
16    db:
17      image: mysql:5.7  # Use the official MySQL 5.7 image
18      container_name: mysql_db
19      environment:
20        MYSQL_ROOT_PASSWORD: example  # Set the root password for MySQL
21      volumes:
22        - db_data:/var/lib/mysql  # Persistent storage for the MySQL data
23      networks:
24        - mynetwork  # Connect the container to the 'mynetwork'
25
26    # Volumes for persistent storage
27    volumes:
28      db_data:  # This volume will store MySQL data
29
30    # Networks
31    networks:
32      mynetwork:  # This is a custom bridge network
```

2.What is Docker hub?

Docker Hub is a cloud-based registry service provided by Docker. It serves as a repository where users can share, store, and distribute Docker container images. Docker Hub is the default registry for Docker and offers both public and private repositories.