

# GroupProject

Member 1 - Kirandeep Singh-149402208

Member 2 - Mishwa Patel-123897217

Member 3 - Meet Patel- 129117214

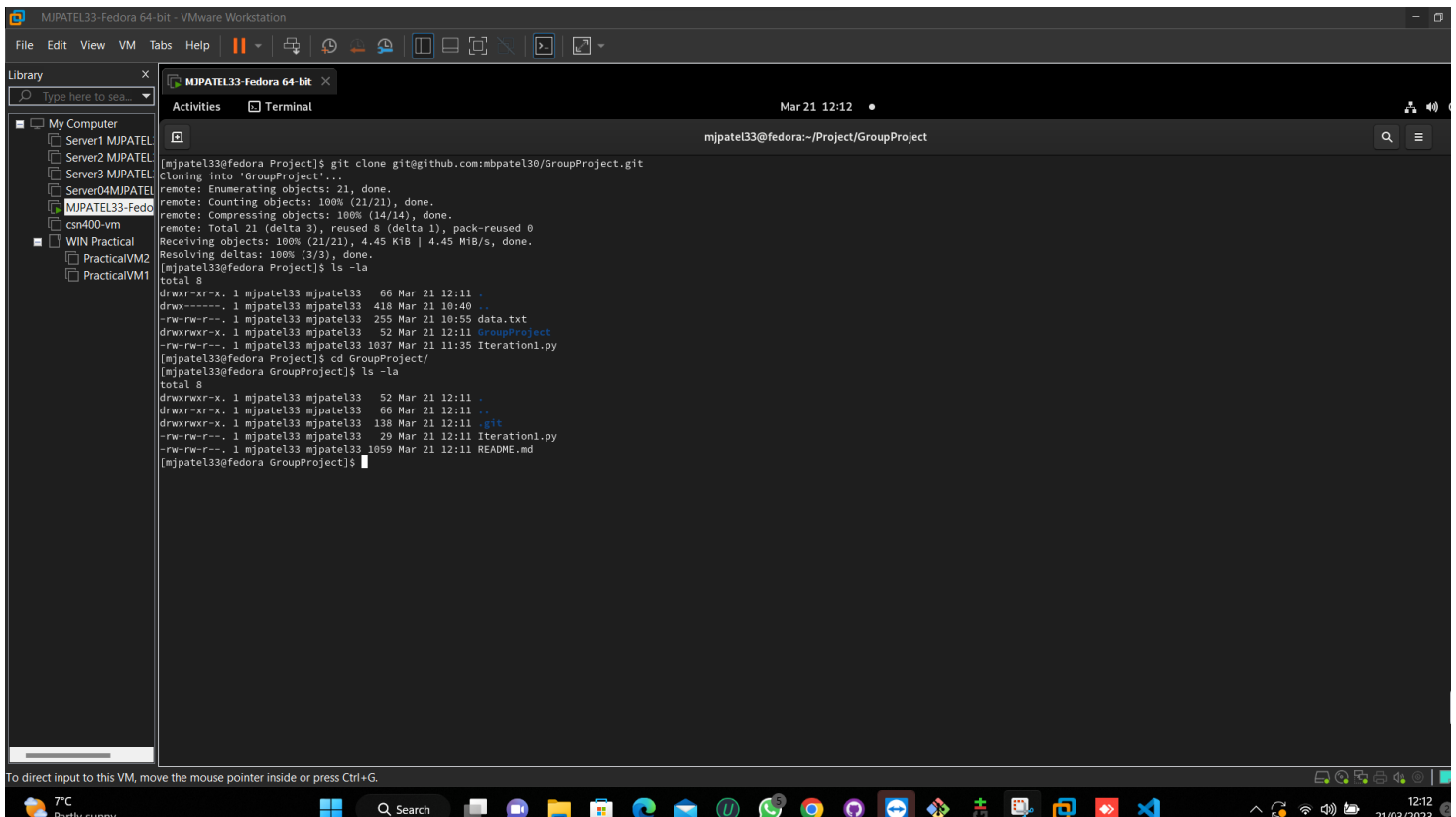
## Development – Iteration #1

2. Clone your repository to your local machine

a. Provide the command used

**git clone git@github.com:mbpatel30/GroupProject.git**

b. Take a screenshot of your repository on your local machine



The screenshot shows a VMware Workstation interface with a terminal window open. The terminal is running a series of commands to clone a Git repository and list its contents. The output shows the cloning process, including enumerating, counting, and compressing objects, followed by a successful clone. The terminal then lists the files in the cloned repository, showing a directory structure with files like data.txt, GroupProject, Iteration1.py, and README.md.

```
mjpate133@fedora Project]$ git clone git@github.com:mbpatel30/GroupProject.git
Cloning into 'GroupProject'...
remote: Enumerating objects: 21, done.
remote: Counting objects: 100% (21/21), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 21 (delta 3), reused 8 (delta 1), pack-reused 0
Receiving objects: 100% (21/21), 4.45 KiB | 4.45 MiB/s, done.
Resolving deltas: 100% (3/3), done.
[mjpate133@fedora Project]$ ls -la
total 8
drwxr-xr-x. 1 mjpate133 mjpate133 66 Mar 21 12:11 .
drwx----- 1 mjpate133 mjpate133 418 Mar 21 10:40 ..
-rw-rw-r-- 1 mjpate133 mjpate133 255 Mar 21 10:55 data.txt
drwxrwxr-x. 1 mjpate133 mjpate133 52 Mar 21 12:11 GroupProject
-rw-rw-r-- 1 mjpate133 mjpate133 1037 Mar 21 11:35 Iteration1.py
[mjpate133@fedora Project]$ cd GroupProject/
[mjpate133@fedora GroupProject]$ ls -la
total 8
drwxrwxr-x. 1 mjpate133 mjpate133 52 Mar 21 12:11 .
drwxr-xr-x. 1 mjpate133 mjpate133 66 Mar 21 12:11 ..
drwxrwxr-x. 1 mjpate133 mjpate133 138 Mar 21 12:11 .git
-rw-rw-r-- 1 mjpate133 mjpate133 29 Mar 21 12:11 Iteration1.py
-rw-rw-r-- 1 mjpate133 mjpate133 1059 Mar 21 12:11 README.md
[mjpate133@fedora GroupProject]$
```

3. As you are developing this application for the first time, create a new branch called “Iteration1”

a. Provide the command used to create your new branch

**git branch Iteration1**

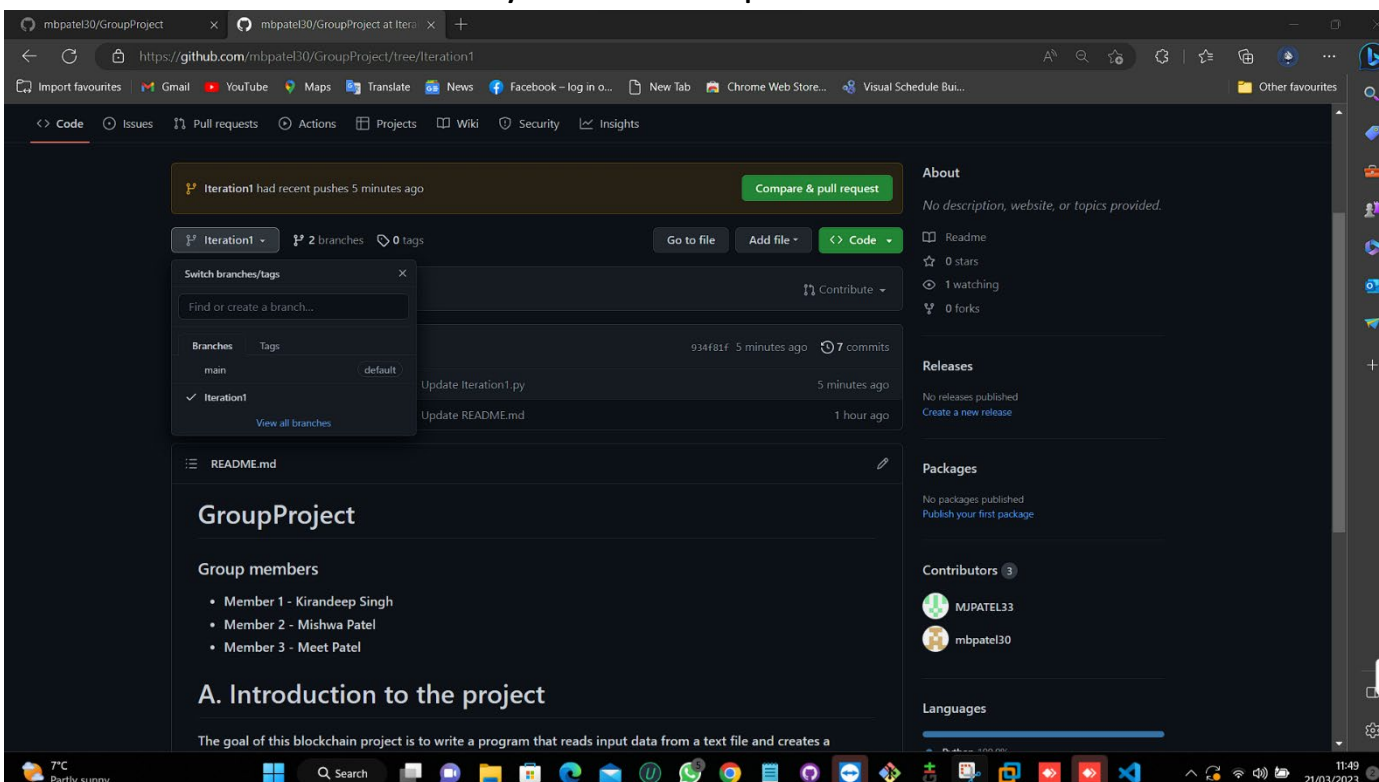
4. Switch to your new branch

a. Provide the command used

**git checkout Iteration1**

6. Once you have successfully created your application, commit your changes to your Iteration1 Branch.

a. Take a screenshot of your branch uploaded in GitHub

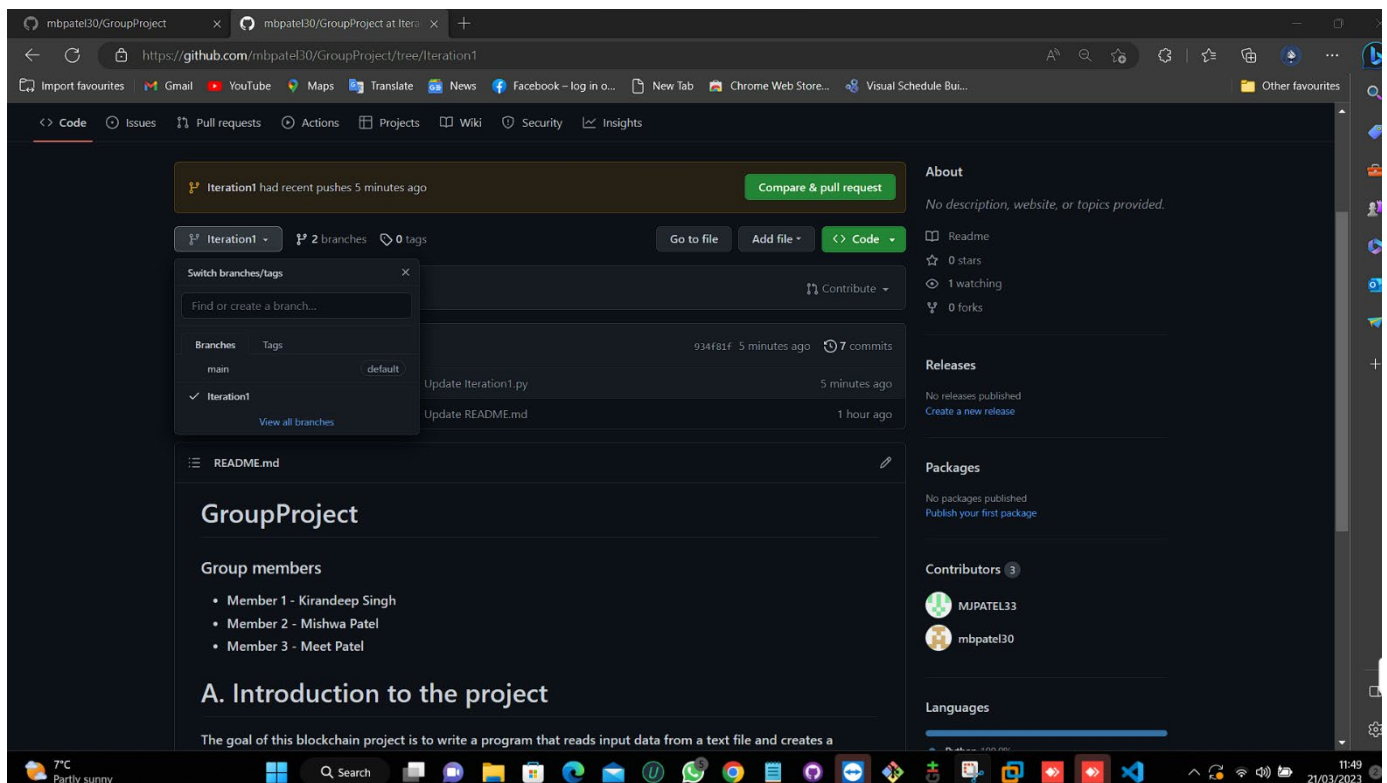


b. Show the command used

**git commit -m "Adds Iteration1"**

7. Push these changes to your Iteration1 Branch

a. Take a screenshot of your branch uploaded in GitHub



b. Show the command used

git add .

git commit -m "Added Iteration 1"

git push origin Iteration1

# QA Testing #1

Show screenshot of a successful run:

The screenshot shows a Windows 11 desktop environment. A virtual machine (VM) window titled "MJPA TEL33-Fedora 64-bit" is open, displaying a terminal window. The terminal shows the execution of a Python script named "Iteration1.py". The script outputs the SHA-256 hashes of three files: "None", "S15COM110750PS110098ULI101076ENG100055MTH10108700", and "S15COM110750PS110098ULI101076ENG100055MTH10108700". The hashes are displayed in hexadecimal format. The terminal window also shows the command "python3 ./Iteration1.py" and the output of the script. The desktop background is a dark blue gradient with a large white 'X' shape. The taskbar at the bottom shows various application icons, including the Start button, Search, and several open applications like a file explorer, a web browser, and a terminal. The system tray in the bottom right corner shows the date and time as 11:06 on 21/03/2023.

## Development – Iteration #2

1. Create a new branch called “Iteration2”

a. Provide the command used to create your new branch

**git branch Iteration2**

2. Switch to your new branch

a. Provide the command used

**git checkout Iteration2**

5. Push these changes to your Iteration2 Branch

b. Show the command used

**git add .**

**git commit -m "Added New branch and bcvalidator.py"**

**git push origin Iteration2**

a. Take a screenshot of your branch uploaded in GitHub

The image shows a screenshot of a GitHub repository page for 'mbpatel30/GroupProject' and a terminal window running git commands.

**GitHub Repository Page:**

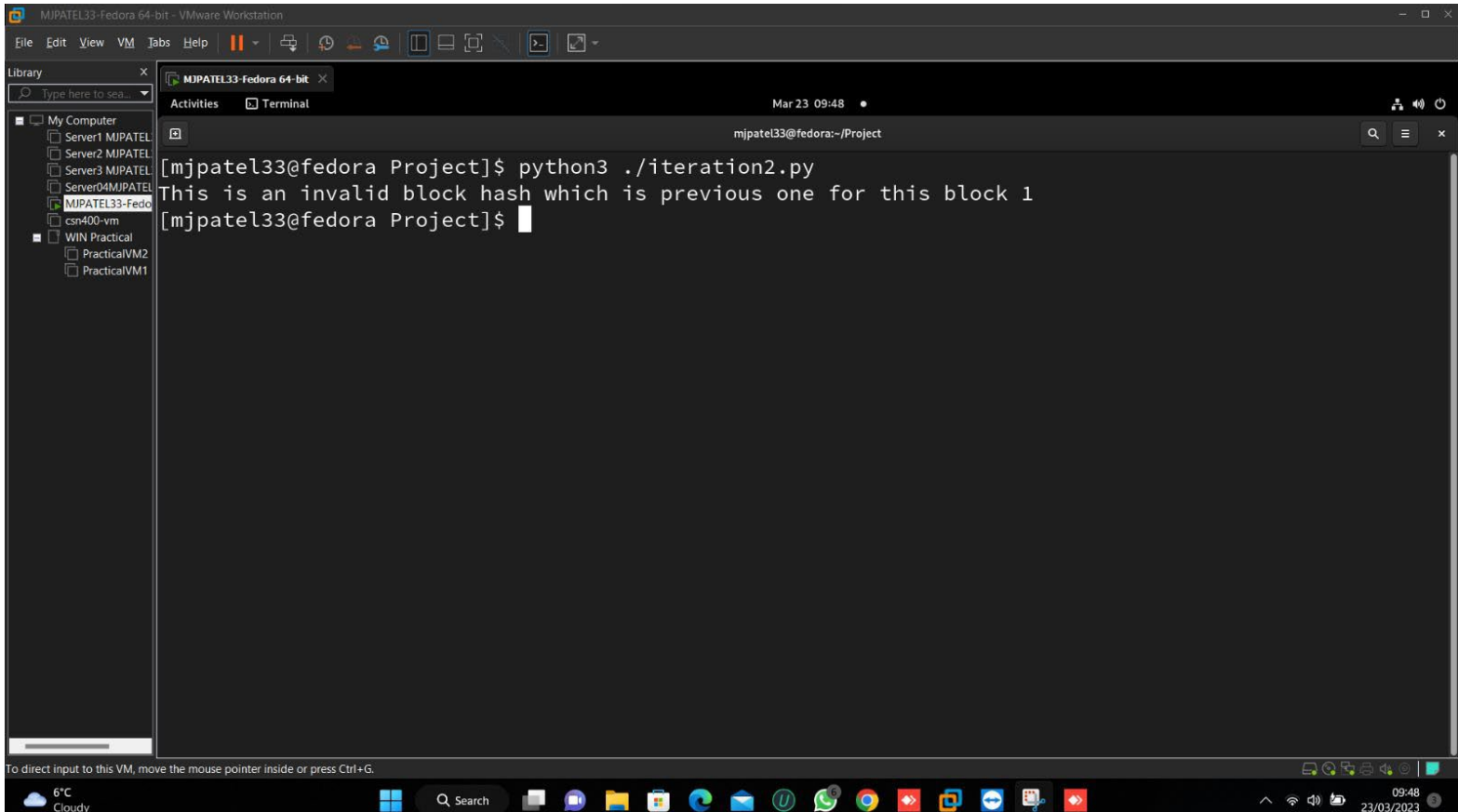
- Repository: mbpatel30/GroupProject
- Branch: Iteration2 (2 commits ahead of main)
- Recent pushes: Iteration2 (2 minutes ago), Iteration1... (2 days ago), README... (2 days ago), bcvalidato... (2 minutes ago)
- Group members: Member 1 - Kirandeep Singh, Member 2 - Mishwa Patel, Member 3 - Meet Patel
- Contributors: MJPATEL33, mbpatel30, Kirandeep63

**Terminal Window (MJPATEL33@fedora):**

```
[mjpate133@fedora Project]$ ls
blockchain_data.txt  data.txt  GroupProject  Iteration1.py  Iteration2.py
[mjpate133@fedora Project]$ cd GroupProject/
[mjpate133@fedora GroupProject]$ git branch Iteration2
[mjpate133@fedora GroupProject]$ git checkout Iteration2
Switched to branch 'Iteration2'
[mjpate133@fedora GroupProject]$ touch bcvalidator.py
[mjpate133@fedora GroupProject]$ git add .
[mjpate133@fedora GroupProject]$ git commit -m "Added New branch and bcvalidator.py"
[Iteration2 4dc292a] Added New branch and bcvalidator.py
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 bcvalidator.py
[mjpate133@fedora GroupProject]$ git push origin Iteration2
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 337 bytes | 337.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'Iteration2' on GitHub by visiting:
remote:   https://github.com/mbpatel30/GroupProject/pull/new/Iteration2
remote:
To github.com:mbpatel30/GroupProject.git
 * [new branch]      Iteration2 -> Iteration2
[mjpate133@fedora GroupProject]$
```

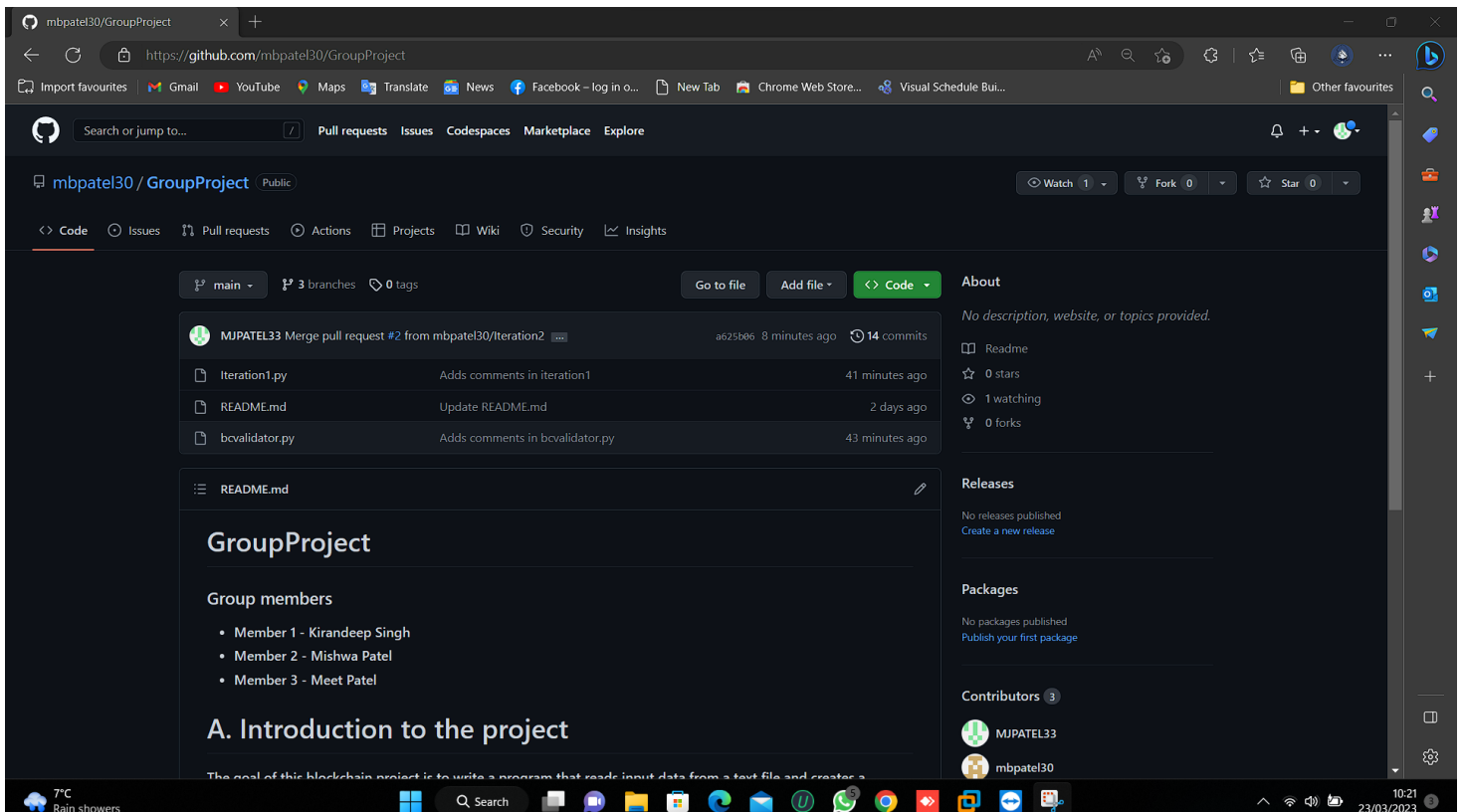
## QA Testing #2

2. Show screenshot of a successful run.



## Deploy:

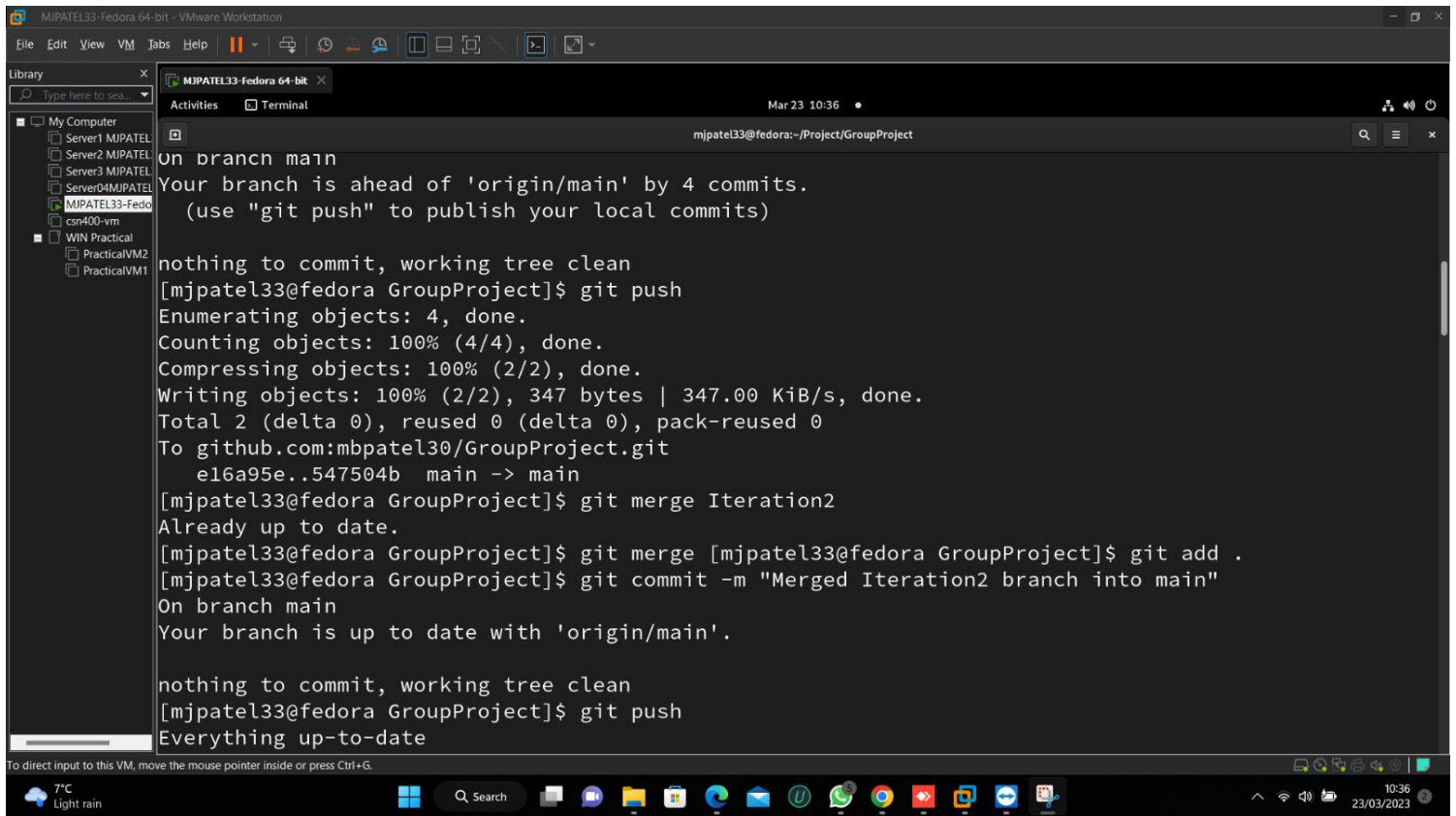
1. It is now time to push your code to Production
  - a. Merge and push your branch above to your main repository
  - i. Take a screenshot of updated file in GitHub





ii. Show the commands used

## git merge Iteration2



The screenshot shows a terminal window within a VMware Workstation environment. The terminal is titled 'mjp Patel33@fedora:~/Project/GroupProject'. The output of the commands is as follows:

```
On branch main
Your branch is ahead of 'origin/main' by 4 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
[mjp Patel33@fedora GroupProject]$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 347 bytes | 347.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:mbpatel30/GroupProject.git
   e16a95e..547504b  main -> main
[mjp Patel33@fedora GroupProject]$ git merge Iteration2
Already up to date.
[mjp Patel33@fedora GroupProject]$ git merge [mjp Patel33@fedora GroupProject]$ git add .
[mjp Patel33@fedora GroupProject]$ git commit -m "Merged Iteration2 branch into main"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
[mjp Patel33@fedora GroupProject]$ git push
Everything up-to-date
```

The terminal window is part of a VMware Workstation interface. The left sidebar shows a library of virtual machines, including 'Server1 MJPATEL', 'Server2 MJPATEL', 'Server3 MJPATEL', 'Server04MJPATEL', 'MJPATEL33-Fedora', 'csm400-vm', 'WIN Practical', 'PracticalVM2', and 'PracticalVM1'. The bottom status bar indicates the system temperature is 7°C with light rain, and the date is 23/03/2023.