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INDEX

TASK 1.1 →

- 1→ Setting up git Client.
- 2→ Setting up Github Account
- 3→ Generate logs
- 4→ Create and visualize branches
- 5→ Git lifecycle description

TASK 1.2 →

- 1→ Add collaborators on GitHub repo
- 2→ Fork and commit
- 3→ Merge and resolve conflicts
- 4→ Reset and revert

TASK 2(*Project*) →

- 1→ Create a distributed Repository and add members in project team
- 2→ Open and close a pull request.
- 3→ Create a pull request on a team members repo and close pull requests generated by team members on own Repo as a maintainer.
- 4→ Publish and print network graph

INSTALLATION OF GIT IN LINUX(UBUNTU)

```
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ sudo apt-get install git -->THIS COMMAND IS FOR INSTALLTION OF GIT  
[sudo] password for diwakar:  
Sorry, try again.  
[sudo] password for diwakar:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
git is already the newest version (1:2.25.1-1ubuntu3.2).  
The following package was automatically installed and is no longer required:  
 libfwupdplugin1  
Use 'sudo apt autoremove' to remove it.  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ git --version --TO CHECK THE GIT VERSION INSTALLED IN OS  
git version 2.25.1
```

- NOW WE HAD SUCESSED TO INSTALL GIT IN OUR SYSTEM
- NOW WE NEED TO ADD OUR EMAIL AND CREATE A USERNAME FOR OUR GIT---

ADDING EMAIL AND USERNAME TO OUR GIT

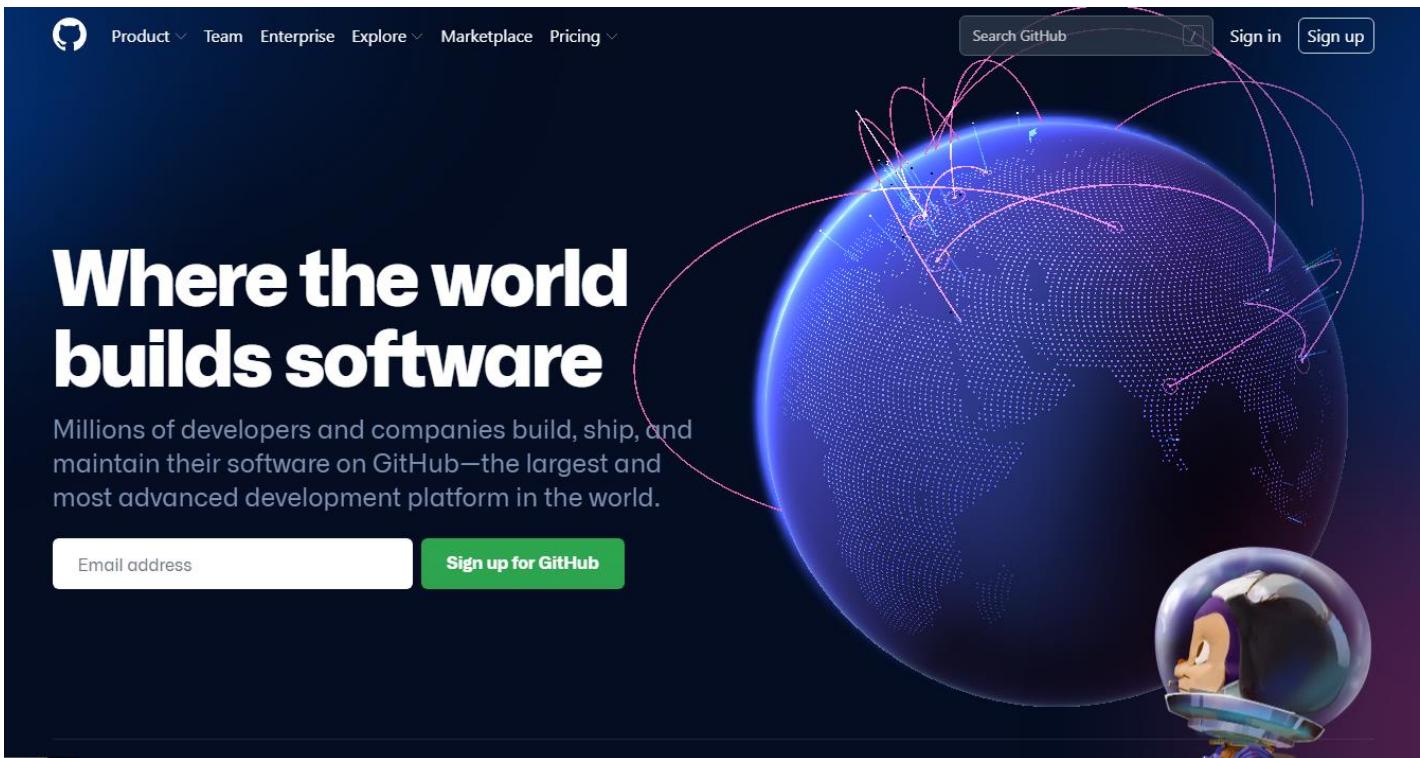
```
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ $ git config --global user.email "eparis@atlassian.com" ---> TO SET THE EMAIL TO GIT  
$ command not found
```

WE CAN LIST OUR GIT USERNAME AND EMAIL USING FOLLOWING
COMMANDS AND WE CAN ALSO EDIT THE DETAILS WHENEVER WE
WANT USING THE FOLLOWING COMMANDS→

```
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ git config --list --> TO GET THE LIST OF OUR GIT USERNAME AND EMAIL
user.name=diwakar4586
user.email=diwakar0470.be21@chitkara.edu.in
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ git config --edit --> TO EDIT THE NAME OR EMAIL OF GIT
```

SETTING UP GITHUB ACCOUNT →

1. ACCOUNT –SETUP→ To Sign up for an account on Github.com ,got the <https://github.com./>



2. Verifying your email address→

To ensure you can use all the features in your Github plan, verify

Your email address after signing up for a new account.

Please verify your email address

github.com/account/unverified-email

Search or jump to... Pulls Issues Marketplace Explore



Please verify your email address

Before you can contribute on GitHub, we need you to verify your email address.

An email containing verification instructions was sent to daniel@yax.com.

[Resend verification email](#) [Change your email settings](#)

STEP2→ After clicking **new repository** option, we will have to initialize some things like, **naming our project**, choosing the **visibility** etc. After performing these steps click **Create Repository** button.

Step1→ Creating a repository

The screenshot shows the GitHub interface for creating a new repository. At the top right, a red arrow points to the 'New repository' option in the dropdown menu. Another red arrow points to the 'Repository name' field where 'Resume' is entered, with a note: 'This is going to be name of our project'. A third red arrow points to the 'Public' radio button, which is selected, with a note: 'Keep this as public selected'. A fourth red arrow points to the 'Description (optional)' field, with a note: 'We can add a project description if we want.' A fifth red arrow points to the 'Initialize this repository with a README' checkbox, which is checked, with a note: 'Tick the README option'. Finally, a red arrow points to the green 'Create repository' button at the bottom left, with a note: 'After performing above steps, Click this button'.

Marketplace Explore

New repository
Import repository
New gist

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Owner Repository name *

Namanbhatia7 Resume ✓

Great repository names are short and memorable. Need inspiration? How about animated-memory?

Description (optional)

Public Anyone can see this repository. You choose who can commit. Private You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

Initialize this repository with a README
This will let you immediately clone the repository to your computer

Add .gitignore: None Add a license: None

Create repository

BASIC COMMANDS TO ADD FILE AND COMMIT THEM

```
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ ls -- TO LIST ALL THE FILES OF DIRECTORY
apport.save          cmpt100           countdown_project   Desktop    'github token'
'c++ course coding ninjas'  'c++ new course'  Cpp-Programs      Documents  git_workspace
'c++ important stuff'     'coding ninjas course' cppsolutions    Downloads   javascript
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ cd Programs_01
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Programs_01$ ls
2darrays.cpp    arraymodule.cpp    exercise.cpp      'lec7 Bitwiseoperators.cpp'  lecture1.cpp
array3.cpp      classs.cpp       functionexercise.cpp 'lec 8 array.cpp'        lecture2.cpp
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Programs_01$ git init --TO INITIATE GIT IN THE DIRECTORY
Initialized empty Git repository in /home/diwakar/Programs_01/.git/
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Programs_01$ git status --TO CHECK(OR TRACK) THE STATUS
On branch master --MASTER IS THE INBUILT BRANCH

No commits yet

Untracked files:
(use "git add <file>..." to include in what will be committed)
  2darrays.cpp  → THESE FILES ARE IN RED COLOR BECAUSE THESE FILES NEED TO ADD AND GET
  array3.cpp
  arraymodule.cpp
  classs.cpp
  exercise.cpp
  functionexercise.cpp
  lec 8 array.cpp
  lec7 Bitwiseoperators.cpp
  lecture1.cpp
```

Figure 1.1

SO IN THE FIGURE 1.1→ We initialize a folder by adding git init

And then we added some files and as we can see those files having red color so it means they are not yet committed they just added to track them so we need to add commit them.

Let see how commit is done in fig 1.2 given below--

```
Changes to be committed:  
(use "git rm --cached <file>..." to unstage)  
  new file: 2darrays.cpp  
  new file: array3.cpp  
  new file: arraymodule.cpp  
  new file: classss.cpp  
  new file: exercise.cpp  
  new file: functionexercise.cpp  
  new file: lec 8 array.cpp  
  new file: lec7 Bitwiseoperators.cpp  
  new file: lecture1.cpp  
  new file: lecture2.cpp  
  new file: lecture3 pointer.cpp  
  new file: lecture4 loops.cpp  
  new file: lecture5 patterns.cpp  
  new file: lecture6 character pattern.cpp  
  new file: newexercises.cpp
```

```
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Programs_01$ git commit -m "Initial commit"
```

```
[master (root-commit) 6806e6c] Initial commit  
15 files changed, 2180 insertions(+)  
create mode 100644 2darrays.cpp  
create mode 100644 array3.cpp  
create mode 100644 arraymodule.cpp  
create mode 100644 classss.cpp  
create mode 100644 exercise.cpp  
create mode 100644 functionexercise.cpp  
create mode 100644 lec 8 array.cpp  
create mode 100644 lec7 Bitwiseoperators.cpp  
create mode 100644 lecture1.cpp  
create mode 100644 lecture2.cpp  
create mode 100644 lecture3 pointer.cpp  
create mode 100644 lecture4 loops.cpp  
create mode 100644 lecture5 patterns.cpp  
create mode 100644 lecture6 character pattern.cpp  
create mode 100644 newexercises.cpp
```

THIS COMMAND IS FOR COMMITTING OUR
ADDED FILE IN THE GIT

Figure 1.2 –

COMMITING A FILE IN GIT I

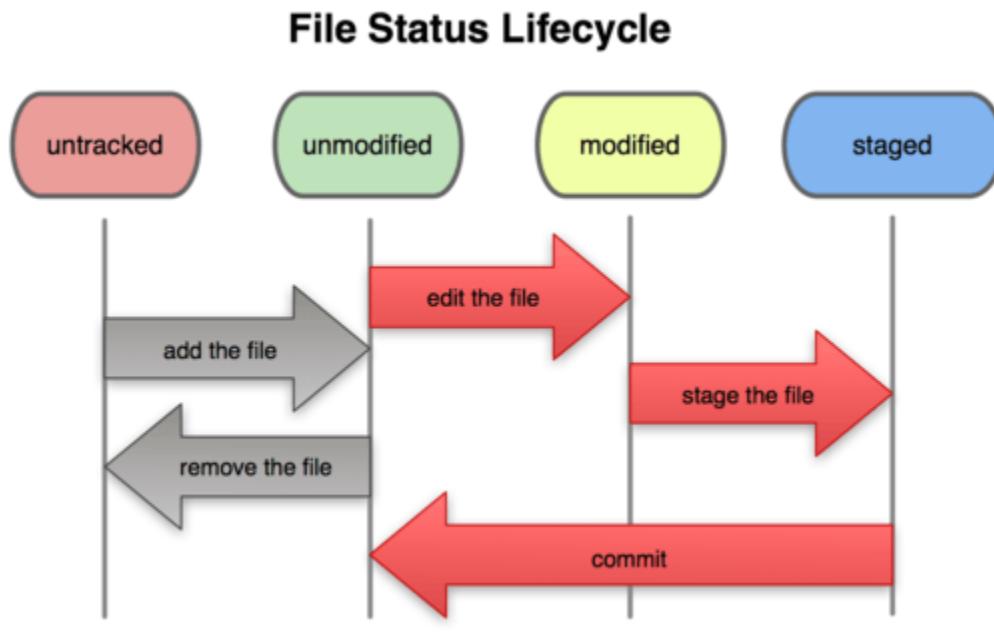
As we already committed our files in the git .Now let see how can we push our git in github

Cloud sever.

```
createMode 100044 js_drumpadproject/com.wav      --THIS COMMAND IS FOR CREATE A NEW BRANCH  
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Content_01$ git branch -M firstbranch  
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Content_01$ git remote add origin https://github.com/Group08-Chitkara-University/2110990470.git  
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Content_01$ git remote -v  
origin https://github.com/Group08-Chitkara-University/2110990470.git (fetch)  
origin https://github.com/Group08-Chitkara-University/2110990470.git (push)  
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Content_01$ git push -u origin firstbranch  
Username for 'https://github.com': diwakar4586  
Password for 'https://diwakar4586@github.com':  
Enumerating objects: 35, done.          THIS COMMAND IS FOR PUSHING OUR FILE TO GITHUB CLOUD  
Counting objects: 100% (35/35), done.           SERVER  
Delta compression using up to 4 threads  
Compressing objects: 100% (35/35), done.  
Writing objects: 100% (35/35), 2.47 MiB | 780.00 KiB/s, done.  
Total 35 (delta 1), reused 0 (delta 0)  
remote: Resolving deltas: 100% (1/1), done.  
To https://github.com/Group08-Chitkara-University/2110990470.git  
 * [new branch]    firstbranch -> firstbranch  
Branch 'firstbranch' set up to track remote branch 'firstbranch' from 'origin'.  
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Content_01$ git status  
On branch firstbranch  
Your branch is up to date with 'origin/firstbranch'.  
  
nothing to commit, working tree clean  
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Content_01$ git log  
commit e9ceb08cffcf3a50875b50d0b8bf9fb21f359bc2 (HEAD -> firstbranch, origin/firstbranch)  
Author: diwakar4586 <diwakar0470.be21@chitkara.edu.in>  
Date:   Sun Apr 10 14:51:47 2022 +0530  
  
  first commit  
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Content_01$ git branch -r ---> TO CHECK THE BRANCH STATUS  
  origin/firstbranch  
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Content_01$
```

↑
TO ADD THE PATH OF CLOUD WHERE THE GIT
WILL PUSHED LATER

Git life cycle description: →



→ If we put some files first in staging area and then modify a file and commit then git will ignore that modification and commit unmodified files.

→ If we want our modified files to be commit then first we have to add that modified file in the staging area and then commit.

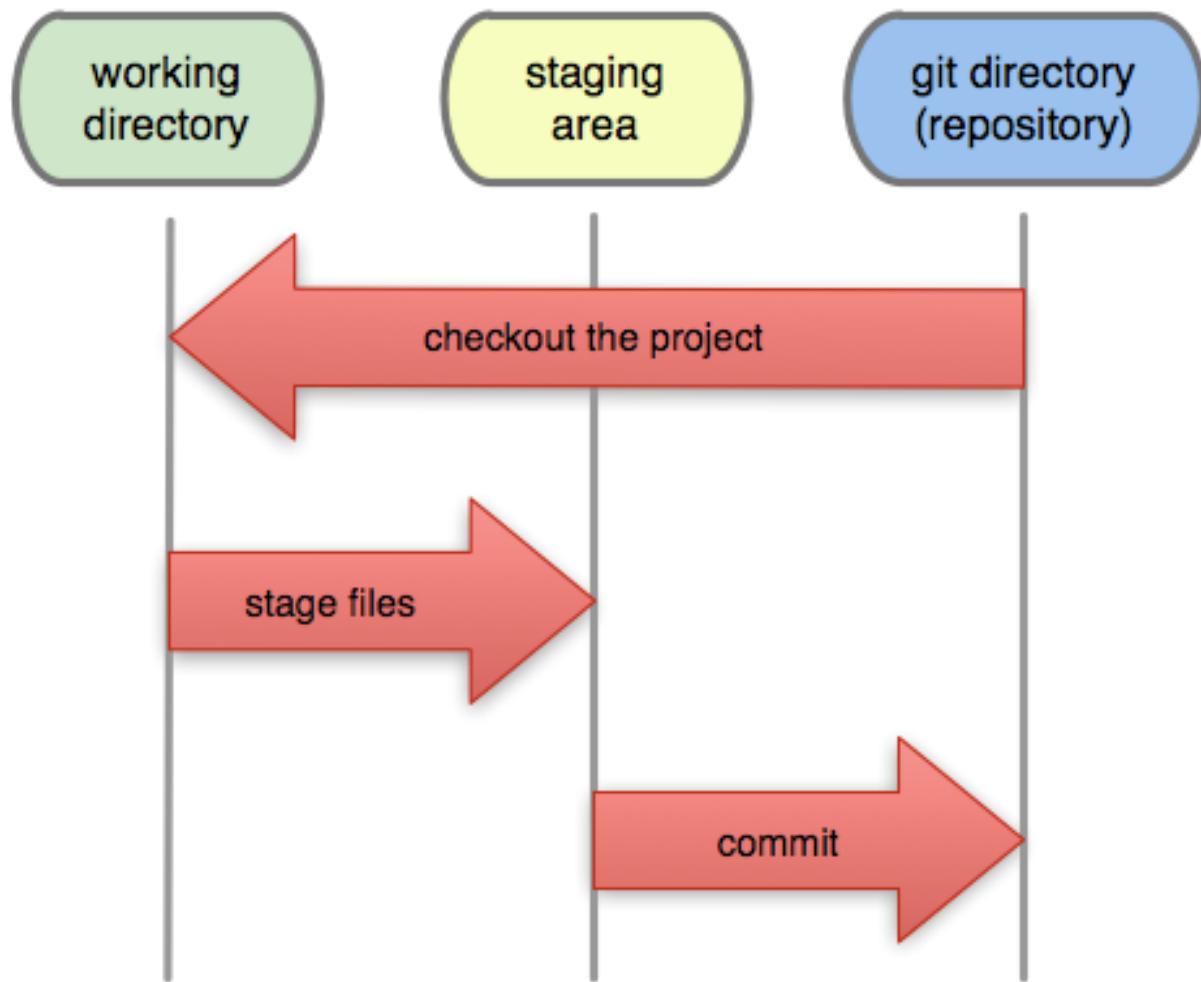
Git uses Three-tier Architecture:

- Working directory
- Staging area
- Local repository

The three stages of git can store different or same stages of the same code in each Stage .

The below diagram represents these three states:

Local Operations



Working Directory:

→ Working directory specifies the folder where your files are stored .

Staging area :

→ Staging area is where your those files are present which you want to send to commit
(to create snapshot of files)

→ After commit is fired , files which are in staging area will move to git repository

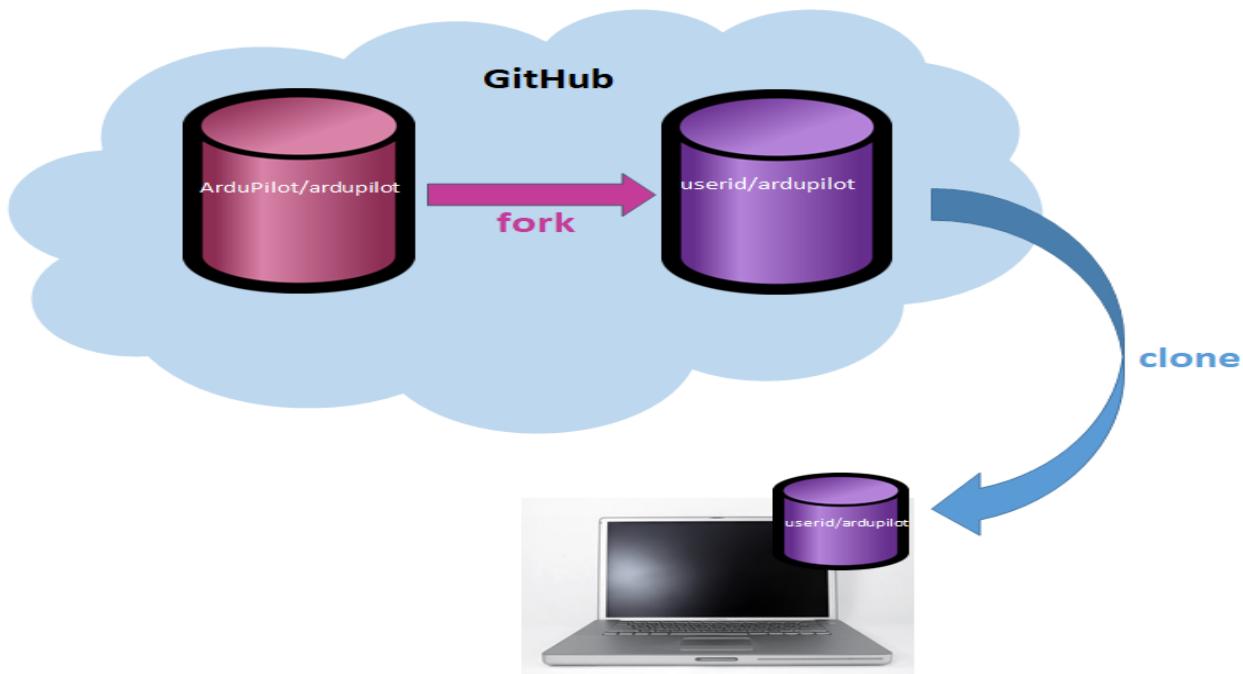
Git repository:

→ If you made any changes in files which are in git repository , those files (with Changes) will be in unstaging area . You again have to add them into staging area and commit.

TASK 1.2

Cloning(git clone):→

The git clone is a command-line utility which is used to make a local copy of a remote repository. It accesses the repository through a remote URL. Now, here we are cloning an open source ios apps repository. On github we searched for open source ios apps and we got a collaborative list of really awesome ios apps. There are actually two ways to clone a repository, either by directly downloading it as a ZIP file for which the option is available in that repository. But we as command-line learners will always prefer cloning a repository using git bash. For cloning the repository git clone command is used.



```
diwakar@diwakar-HP-Laptop-15-da0xx:~/task1.2$ git clone https://github.com/DEVANSH-DOGRA/MOON.git
Cloning into 'MOON'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 14 (delta 2), reused 12 (delta 1), pack-reused 0
Unpacking objects: 100% (14/14), 50.33 KiB | 425.00 KiB/s, done.
```

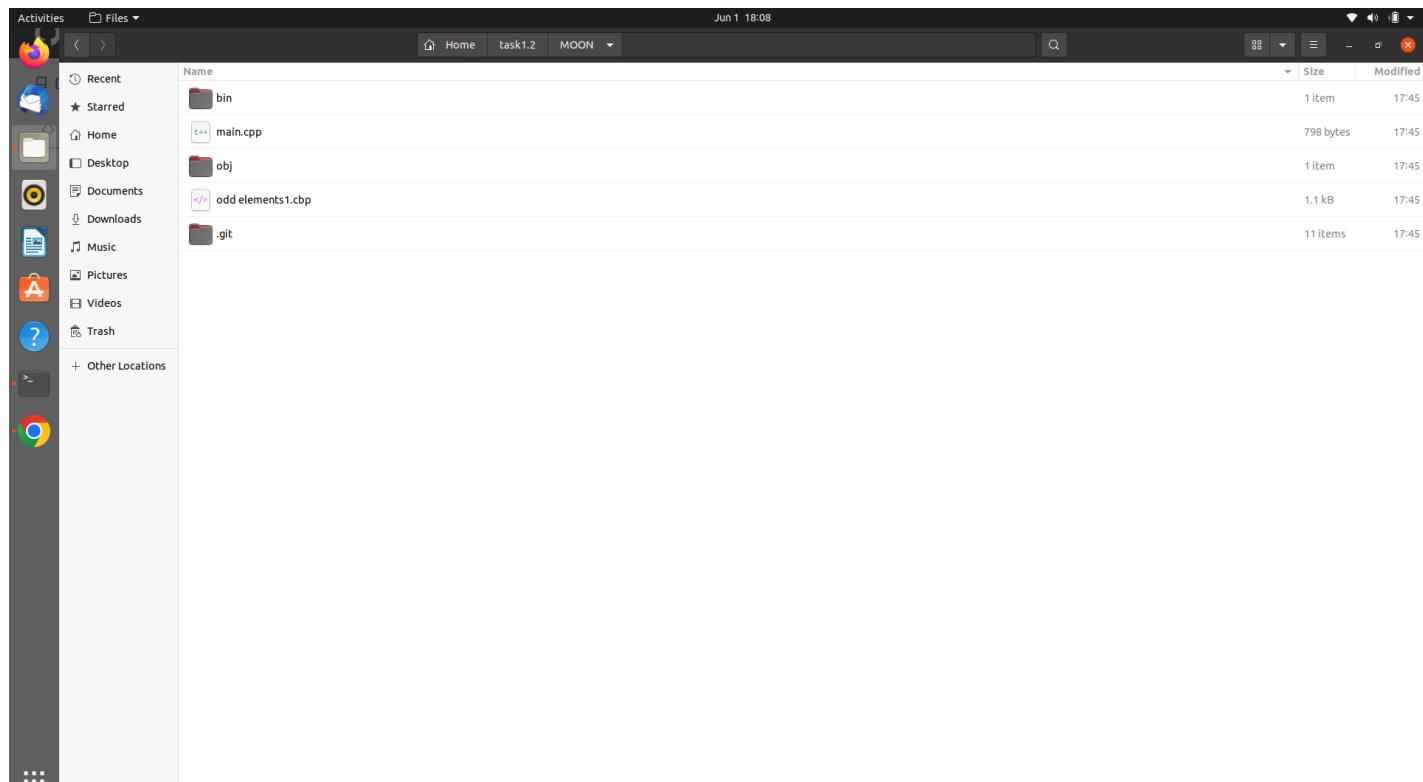
NO
W
WE
NEE
D

TO PASTE THIS URL IN OUR TERMINAL TO GET THE CLONE

OF THIS REPOSITORY USING SYNTAX- git clone <URL>

The screenshot shows a GitHub repository page for 'DEVANSH-DOGRA / MOON'. The repository is public and contains one branch ('master') and one commit ('1ST COMMIT OF ODD ELEMENT'). The code file 'main.cpp' is visible. On the right side of the page, there is a 'Clone' section with a 'Clone' button and a link to the repository's URL: <https://github.com/DEVANSH-DOGRA/MOON>. Other sections on the page include 'About', 'Releases', 'Packages', 'Contributors', and 'Languages'.

NOW THE REPOSITORY IS SUCCESSFULLY CLONED.



```
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON$ git log
commit 317dd1a3d01fda1dada20493dce743660183e703 (HEAD -> master, origin/master, origin/HEAD)
```

Merge: ad788ac abf723e

Author: DEVANSH-DOGRA <101620372+DEVANSH-DOGRA@users.noreply.github.com>

Date: Tue May 31 22:36:40 2022 +0530

Merge pull request #1 from DakshMalik02/feature

Code is appended and updated

```
commit abf723e3b3abcc2cadf7ac2a7427cbb90f9eb9c0
```

Author: DakshMalik02 <daksh0399.be21@chitkara.edu.in>

Date: Tue May 31 22:28:59 2022 +0530

Code is appended and updated

```
commit ad788ac151ecf02ecd67c78945238bbbef1a5b0b
```

Author: DEVANSH-DOGRA <devansh0422.be21@chitkara.edu.in>

Date: Mon Mar 21 22:03:25 2022 +0530

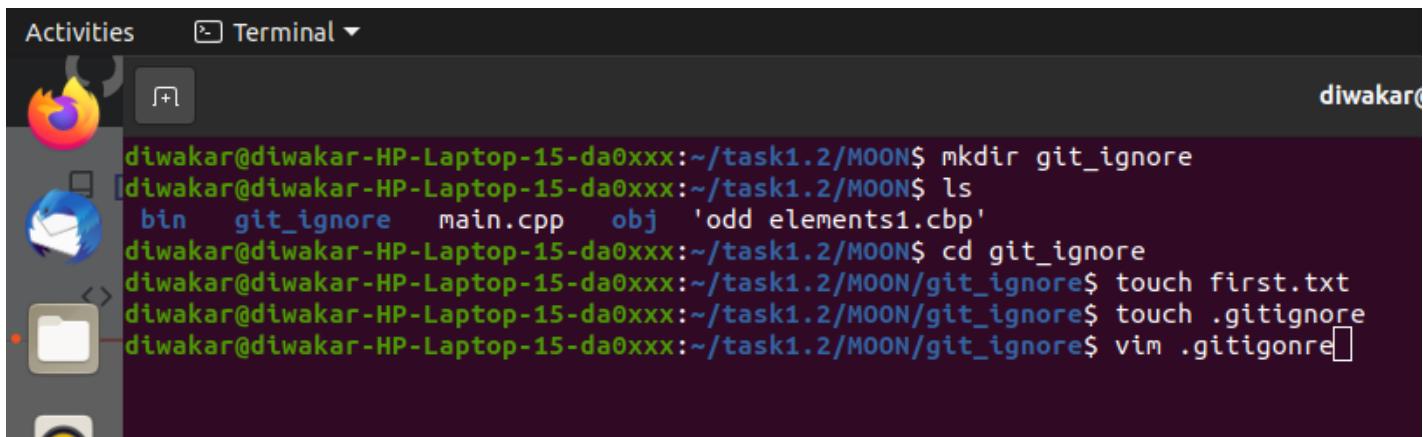
1ST COMMIT OF ODD ELEMENTS1 REPO

GIT IGNORE:→

Git can specify which files or parts of your project should be ignored by Git using a `.gitignore` file. Git will not track files and folders specified in `.gitignore`

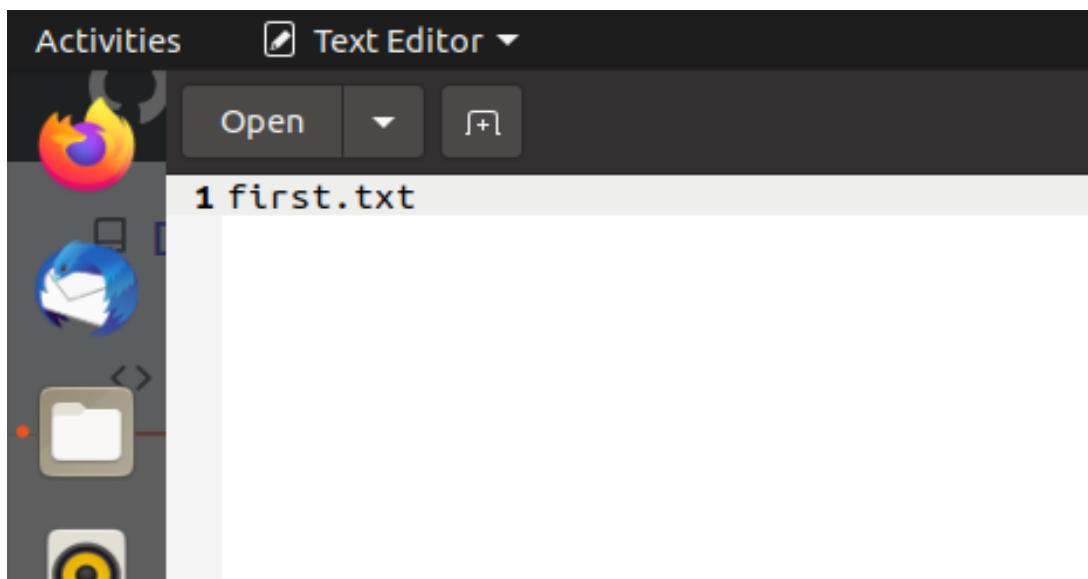
Here we have created a directory named `git_ignore` in which I created a file named as `first.txt`.

Now we will ignore it using creating and git `.gitignore` file.



```
Activities Terminal ▾ diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON$ mkdir git_ignore
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON$ ls
bin  git_ignore  main.cpp  obj  'odd elements1.cbp'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON$ cd git_ignore
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ touch first.txt
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ touch .gitignore
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ vim .gitignore
```

In this `.gitignore` file we type the names of those files that we want git to ignore.



Then we follow the accustomed steps to push the files into the remote repository.

```
Activities Terminal Jun 1 18:54
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git init
Initialized empty Git repository in /home/diwakar/task1.2/MOON/git_ignore/.git/
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git status
On branch master
No commits yet
Untracked files:
 (use "git add <file>..." to include in what will be committed)
 .gitignore
nothing added to commit but untracked files present (use "git add" to track)
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git add .
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git status
On branch master
No commits yet
Changes to be committed:
 (use "git rm --cached <file>..." to unstage)
 new file: .gitignore

diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git commit -m "Ignoring first.txt"
[master (root-commit) 3c7b421] Ignoring first.txt
 1 file changed, 1 insertion(+)
 create mode 100644 .gitignore
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git status
On branch master
nothing to commit, working tree clean
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git remote add origin https://github.com/Group08-Chitkara-University/2110990470
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git status
On branch master
nothing to commit, working tree clean
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git branch
* master
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git branch master1
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git checkout master1
Switched to branch 'master1'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git branch
```

```
Activities Terminal Jun 1 18:55
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git branch master1
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git checkout master1
Switched to branch 'master1'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git branch
* master1
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git push -u origin master1
Username for 'https://github.com': QWERasd1234
Password for 'https://QWERasd1234@github.com':
remote: Support for password authentication was removed on August 13, 2021. Please use a personal access token instead.
remote: Please see https://github.blog/2020-12-15-token-authentication-requirements-for-git-operations/ for more information.
fatal: Authentication failed for 'https://github.com/Group08-Chitkara-University/2110990470/'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git push -u origin master1
Username for 'https://github.com': diwakar4586
Password for 'https://diwakar4586@github.com':
remote: Support for password authentication was removed on August 13, 2021. Please use a personal access token instead.
remote: Please see https://github.blog/2020-12-15-token-authentication-requirements-for-git-operations/ for more information.
fatal: Authentication failed for 'https://github.com/Group08-Chitkara-University/2110990470/'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git push -u origin master1
Username for 'https://github.com': diwakar4586
Password for 'https://diwakar4586@github.com':
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Group08-Chitkara-University/2110990470/'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ git push -u origin master1
Username for 'https://github.com': diwakar4586
Password for 'https://diwakar4586@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 237 bytes | 237.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'master1' on GitHub by visiting:
remote:   https://github.com/Group08-Chitkara-University/2110990470/pull/new/master1
remote:
To https://github.com/Group08-Chitkara-University/2110990470
 * [new branch]    master1 -> master1
Branch 'master1' set up to track remote branch 'master1' from 'origin'.
diwakar@diwakar-HP-Laptop-15-da0xxx:~/task1.2/MOON/git_ignore$ 
```

Now we have successfully pushed the desired file and ignoring the specific file(first.txt) on our remote repository on github.

A screenshot of a GitHub repository page for 'Group08-Chittkara-University' (ID: 2110990470). The repository is public and has 1 branch (master), 2 branches, and 0 tags. The master branch has 7 commits by user 'diwakar4986'. The commits are:

- Delete scm_project_1 directory (scm_file)
- c++_programs (first commit)
- countdown_project (first commit)
- js_drumpadproject (first commit)

The page also shows sections for About (Diwakar, 0 stars, 1 watching, 1 fork), Releases (no releases published), Packages (no packages published), and Languages (C++ 85.8%, HTML 10.1%, JavaScript 2.2%, CSS 1.9%).

MERGING AND RESOLVING CONFLICTS IN GIT:

NEW REPOSITORY:→

A screenshot of a GitHub repository page for 'HarshKadiyan / Task-1.2'. The repository is public and has 1 branch (master), 1 branch, and 0 tags. The master branch has 1 commit by user 'HarshKadiyan' (Initial Commit). The commit details are:

- Sum.cpp (Initial Commit)

The page also shows sections for About (No description, website, or topics provided), Releases (no releases published), Packages (no packages published), and a note to activate Windows.

Adding collaborators on the new repository created: →

The screenshot shows a Microsoft Edge browser window with the URL github.com/HarshKadiyan/Task-1.2/settings/access. The page displays a 'Manage access' section for a public repository. A modal dialog titled 'Add a collaborator to Task-1.2' is open, containing a search bar ('Search by username, full name, or email') and a green button ('Select a collaborator above'). Below the modal, there is a large text area stating '0 collaborators have access to this repository. Only you can contribute to this repository.' On the left sidebar, there are various repository settings like 'Code and automation', 'Branches', and 'Actions'. At the bottom of the browser window, the Windows taskbar is visible with icons for File Explorer, Task View, and other applications.

The screenshot shows a Microsoft Edge browser window with the URL github.com/HarshKadiyan/Task-1.2/settings/access?guidance_task=1. The page displays the 'Who has access' section, which shows 'DIRECT ACCESS' with 1 collaborator (DEVANSH-DOGRA) and 1 invitation pending. Below this is the 'Manage access' section, which includes a 'Select all' checkbox, a search bar ('Find a collaborator...'), and a list entry for 'DEVANSH-DOGRA' with status 'Awaiting DEVANSH-DOGRA's response', a 'Pending Invite' button, and a 'Remove' button. The left sidebar contains the same repository settings as the previous screenshot. The Windows taskbar is visible at the bottom.

HarshKadiyan/Task-1.2

git & GitHub Tutorial For Beginner

Manage access

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Actions

Webhooks

Environments

Pages

Security

Code security and analysis

Deploy keys

Secrets

Integrations

GitHub apps

DakshMalik02

DakshMalik02 Invite collaborator

Select a collaborator above

Find a collaborator...

DEVANSH-DOGRA Awaiting DEVANSH-DOGRA's response Pending Invite Remove

Add people

Type

Activate Windows Go to Settings to activate Windows.

38°C Light rain ENG IN 1:45 PM 5/31/2022

HarshKadiyan/Task-1.2

git & GitHub Tutorial For Beginner

WhatsApp

Manage access

Code and automation

Branches

Tags

Actions

Webhooks

Environments

Pages

Security

Code security and analysis

Deploy keys

Secrets

Integrations

GitHub apps

Email notifications

Diwakar diwakar4586

Add diwakar4586 to this repository

Add people

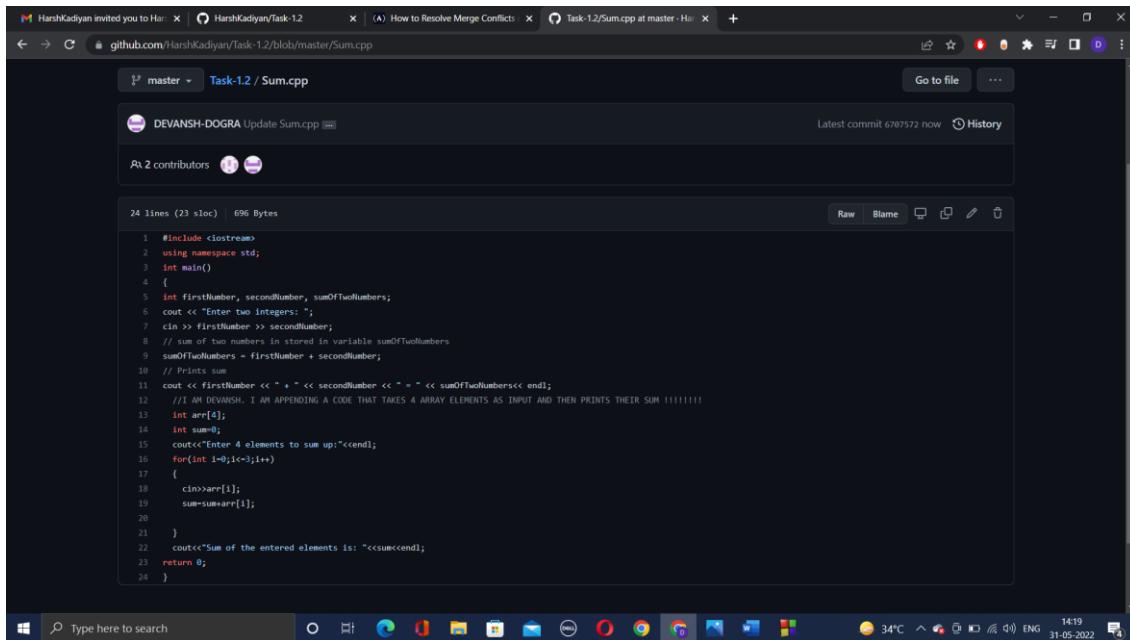
Type

Awaiting DEVANSH-DOGRA's response Remove

Activate Windows Go to Settings to activate Windows.

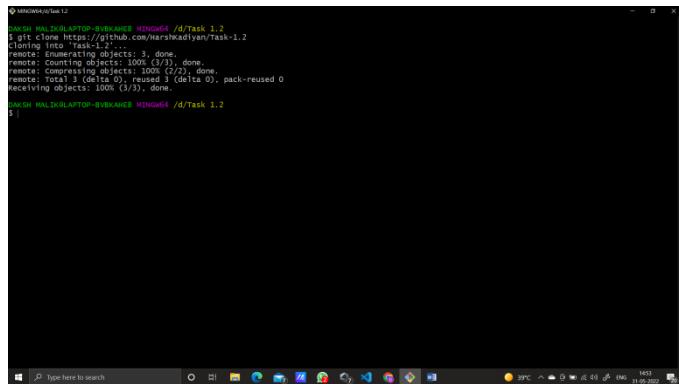
38°C Light rain ENG IN 1:46 PM 5/31/2022

MAKING CHANGES IN THE FILE USING ONLINE EDITOR ON GITHUB



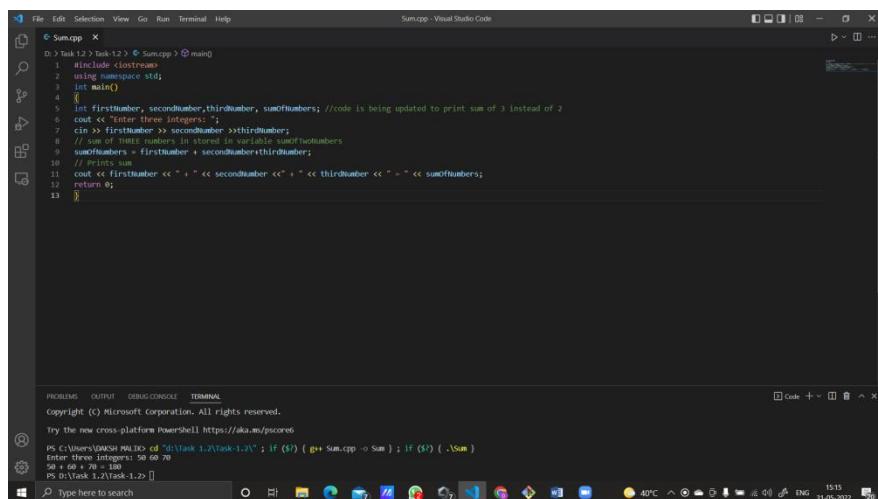
```
24 lines (23 sloc) | 696 Bytes
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int firstNumber, secondNumber, sumOfTwoNumbers;
6     cout << "Enter two integers: ";
7     cin >> firstNumber >> secondNumber;
8     // sum of two numbers is stored in variable sumOfTwoNumbers
9     sumOfTwoNumbers = firstNumber + secondNumber;
10    // Prints sum
11    cout << firstNumber << " + " << secondNumber << " = " << sumOfTwoNumbers << endl; // Line 11 has a red box around it
12    //I AM DEVANSH. I AM APPENDING A CODE THAT TAKES 4 ARRAY ELEMENTS AS INPUT AND THEN PRINTS THEIR SUM !!!!!!
13    int arr[4];
14    int sum=0;
15    cout<<"Enter 4 elements to sum up:"<<endl;
16    for(int i=0;i<4;i++)
17    {
18        cin>>arr[i];
19        sum=sum+arr[i];
20    }
21    cout<<"Sum of the entered elements is: "<<sum<<endl;
22    return 0;
23 }
```

CLONING THE REPOSITORY:→



```
DAKSH MALIK@LAPTOP-BVBAHEB MINGW64 /d/Task 1.2
$ git clone https://github.com/HarshKadiany/Task-1.2
  % Total    % Received ========= 
  0       0      0 0.00K/s     0 0.00K/s
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
remote: Writing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

EDITING CODE→

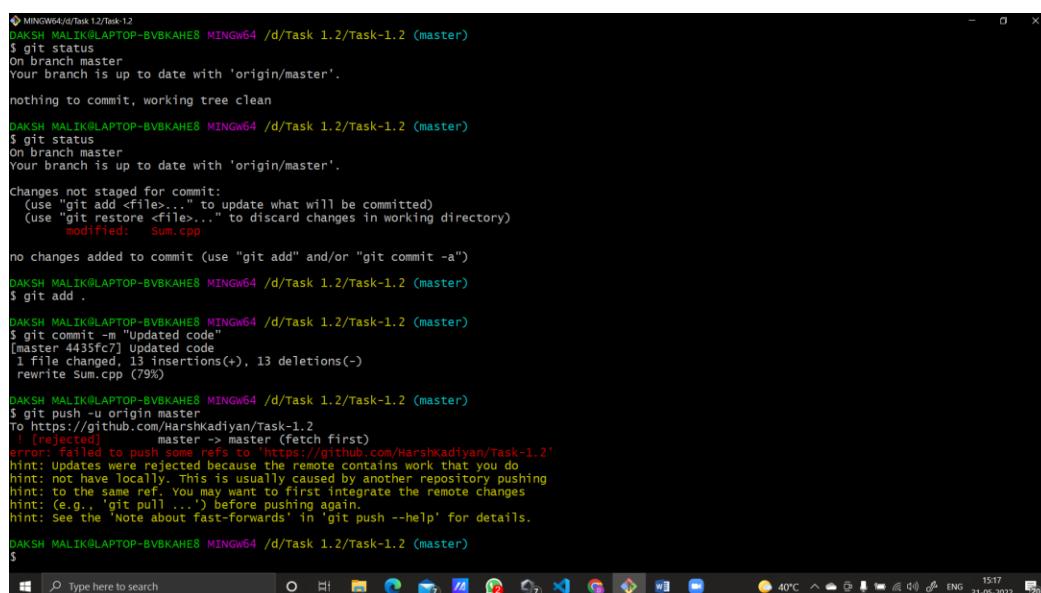


```
File Edit Selection View Go Run Terminal Help
Sum.cpp - Visual Studio Code
D:\Task 1.2>Task 1.2>Sum.cpp > main()
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int firstNumber, secondNumber, thirdNumber, sumNumbers; //code is being updated to print sum of 3 instead of 2
6     cout << "Enter three integers: ";
7     cin >> firstNumber >> secondNumber >> thirdNumber;
8     sumNumbers = firstNumber + secondNumber + thirdNumber;
9     // Prints sum
10    cout << firstNumber << " " << secondNumber << " " << thirdNumber << " " << sumNumbers;
11    return 0;
12 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell: https://aka.ms/pscore6
PS C:\Users\DAKSH\ALI> cd D:\Task 1.2\Task-1.2\& if ($?) { g++ Sum.cpp -o Sum } ; if ($?) { .\Sum }
Enter three integers: 50 60 70
50 + 60 + 70 = 180
PS D:\Task 1.2\Task-1.2> []
```

CONFLICT OCCUR DURING PUSHING CODE→



```
MINGW64/d/Task 1.2
DAKSH MALIK@LAPTOP-BVBAHEB MINGW64 /d/Task 1.2/Task-1.2 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean

DAKSH MALIK@LAPTOP-BVBAHEB MINGW64 /d/Task 1.2/Task-1.2 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Sum.cpp

no changes added to commit (use "git add" and/or "git commit -a")

DAKSH MALIK@LAPTOP-BVBAHEB MINGW64 /d/Task 1.2/Task-1.2 (master)
$ git add .
DAKSH MALIK@LAPTOP-BVBAHEB MINGW64 /d/Task 1.2/Task-1.2 (master)
$ git commit -m "Updated code"
[master 4435fc7] Updated code
 1 file changed, 13 insertions(+), 13 deletions(-)
 rewrite sum.cpp (79%)

DAKSH MALIK@LAPTOP-BVBAHEB MINGW64 /d/Task 1.2/Task-1.2 (master)
$ git push -u origin master
To https://github.com/HarshKadiany/Task-1.2
  ! [rejected]        master <refs/heads/master> (fetch first)
error: failed to push some refs to 'https://github.com/HarshKadiany/Task-1.2'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

Merge and Resolve conflicts created due to own activity and collaborators activity:-

→ In a repo if we and our collaborators make some changes . And if 2 or more collaborators make the changes in same lines of codes so here a conflict will be created which have to resolve . They have to finalised the best version of that code and select that and the selected one will be the final and committed.

Steps to get a merge conflict :

Step 1:

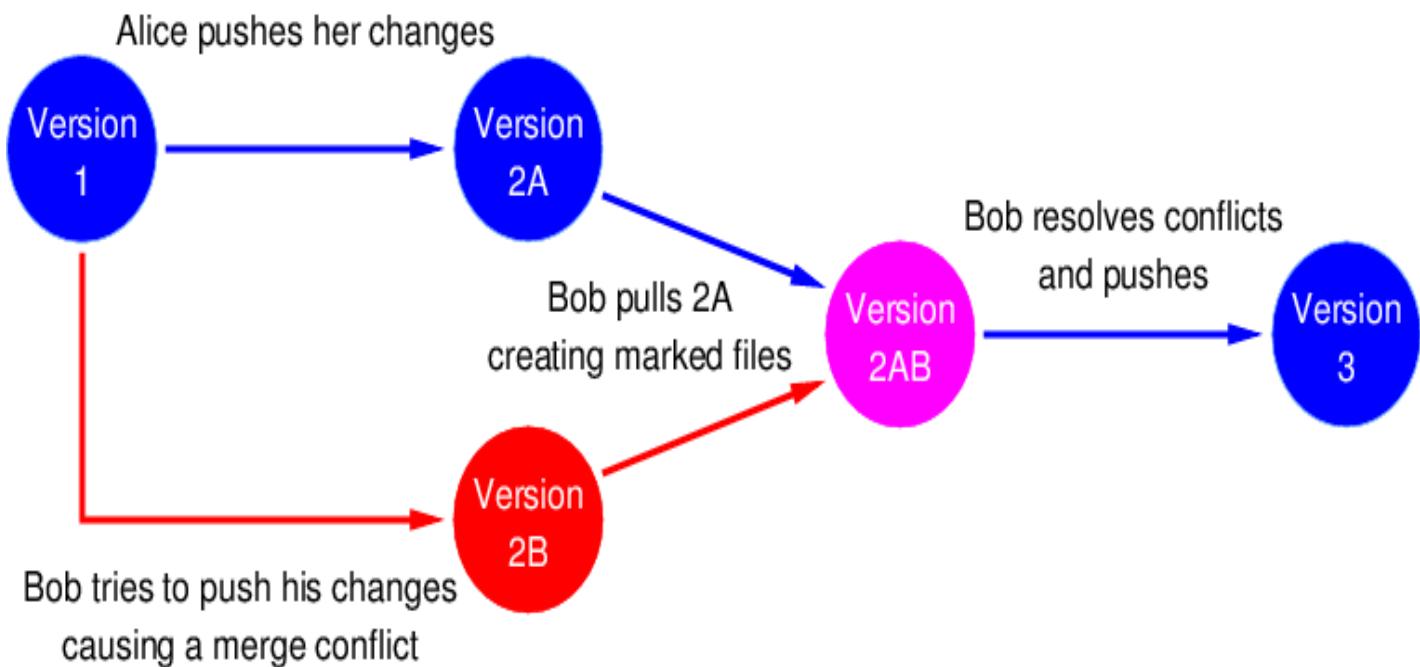
Create a file . For eg - index.html

And push that to your Github repo.

Step 2:

Create a new branch , make some changes in it and commit and push this as well. Now your repo will be having 2 branches.

are

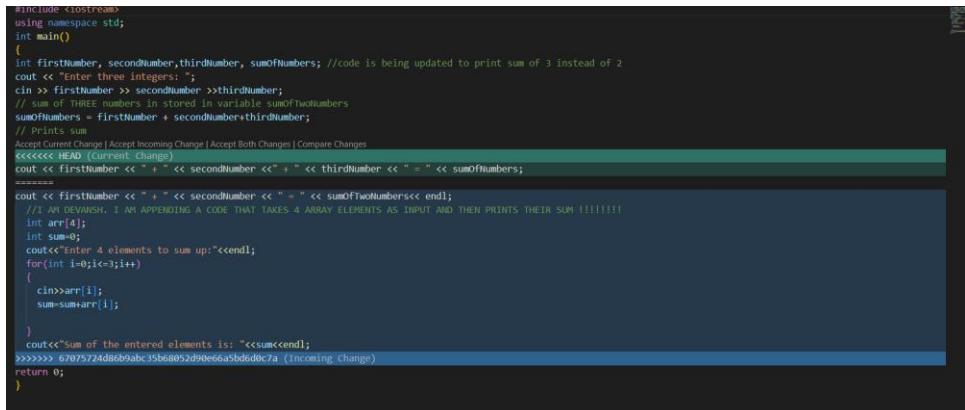


Resolving conflict by pulling original code:→

```
DAKSH MALIK@LAPTOP-BVKAHE8 MINGW64 /d/Task 1.2/Task-1.2 (master)
$ 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
Unpacking objects: 100% (3/3), 1.03 KiB | 151.00 KiB/s, done.
From https://github.com/Harshkadiyan/Task-1.2
  d38656a..6707572 master      -> origin/master
Auto-merging sum.cpp
CONFLICT (content): Merge conflict in sum.cpp
Automatic merge failed; fix conflicts and then commit the result.

DAKSH MALIK@LAPTOP-BVKAHE8 MINGW64 /d/Task 1.2/Task-1.2 (master|MERGING)
$
```

Further by opening the file with editor it shows changes made by the remote user:→



```
#include <iostream>
using namespace std;
int main()
{
    int firstNumber, secondNumber, thirdNumber, sumOfNumbers; //code is being updated to print sum of 3 instead of 2
    cout << "Enter three integers: ";
    cin >> firstNumber >> secondNumber >>thirdNumber;
    // sum of THREE numbers is stored in variable sumOfTwoNumbers
    sumOfNumbers = firstNumber + secondNumber+thirdNumber;
    // prints sum
    cout << "Sum of three numbers is: " << sumOfNumbers;
}
=====
Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes
<<<<< HEAD (current change)
cout << firstNumber << " + " << secondNumber << " + " << thirdNumber << " = " << sumOfNumbers;
=====
cout << firstNumber << " + " << secondNumber << " + " << sumOfTwoNumbers<< endl;
//I AM DEVANSH, I AM APPENDING A CODE THAT TAKES 4 ARRAY ELEMENTS AS INPUT AND THEN PRINTS THEIR SUM !!!!!!!
int arr[4];
int sum=0;
cout<<"Enter 4 elements to sum up:"<<endl;
for(int i=0;i<4;i++)
{
    cin>>arr[i];
    sum=sum+arr[i];
}
cout<<"Sum of the entered elements is: "<<sum<<endl;
>>>> 67075724d86b9abc35b68052d90e60a5bd6dec7a (incoming change)
return 0;
}
```

Code is updated:→

File Edit Selection View Go Run Terminal Help Sum.cpp - Visual Studio Code

```
Sum.cpp X
D: > Task 1.2 > Task-1.2 > Sum.cpp > main()
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int firstNumber, secondNumber, thirdNumber, sumOfNumbers; //code is being updated to print sum of 3 instead of 2 (edited by Daksh)
6     cout << "Enter three integers: ";
7     cin >> firstNumber >> secondNumber >> thirdNumber;
8     // sum of THREE numbers is stored in variable sumOfTwoNumbers
9     sumOfNumbers = firstNumber + secondNumber+thirdNumber;
10    // Prints sum
11    cout << firstNumber << " + " << secondNumber << " + " << thirdNumber << " = " << sumOfNumbers<<endl;
12    //I AM DEVANISH. I AM APPENDING A CODE THAT TAKES 4 ARRAY ELEMENTS AS INPUT AND THEN PRINTS THEIR SUM !!!!!!!
13    int arr[4];
14    int sum=0;
15    int product=1; // I am adding product also (edited by Daksh)
16    cout<<"Enter 4 elements to sum up:"<<endl;
17    for(int i=0;i<4;i++)
18    {
19        cin>>arr[i];
20        sum+=arr[i];
21        product *= arr[i];
22    }
23    cout<<"Sum of the entered elements is: "<<sum<<endl;
24    cout<<"Product of the entered elements is: "<<product<<endl;
25
26    return 0;
27 }
28
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Enter 4 elements to sum up:
30
40
50
60
Sum of the entered elements is: 180
Product of the entered elements is: 3600000
PS D:\Task 1.2\Task-1.2>

Type here to search

40°C ENG 31-05-2022 15:25

Checking the status:→

```
DAKSH MALIK@LAPTOP-BVBKAHE8 MINGW64 /d/Task 1.2/Task-1.2 (master)
$ 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
Unpacking objects: 100% (3/3), 1.03 KiB | 151.00 KiB/s, done.
From https://github.com/HarshKadiyan/Task-1.2
  d38656a..6707572 master      -> origin/master
Auto-merging Sum.cpp
CONFLICT (content): Merge conflict in Sum.cpp
Automatic merge failed; fix conflicts and then commit the result.

DAKSH MALIK@LAPTOP-BVBKAHE8 MINGW64 /d/Task 1.2/Task-1.2 (master|MERGING)
$ git status
On branch master
Your branch and 'origin/master' have diverged,
and have 1 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified:  Sum.cpp

no changes added to commit (use "git add" and/or "git commit -a")

DAKSH MALIK@LAPTOP-BVBKAHE8 MINGW64 /d/Task 1.2/Task-1.2 (master|MERGING)
$
```

```
DAKSH MALIK@LAPTOP-BVKAHE8 MINGW64 /d/Task 1.2/Task-1.2 (master|MERGING)
$ git commit -m "Conflict is solved and the code is updated"
[master 2343a4b] Conflict is solved and the code is updated
```

```
DAKSH MALIK@LAPTOP-BVKAHE8 MINGW64 /d/Task 1.2/Task-1.2 (master)
$ git push -u origin master
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 818 bytes | 818.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/HarshKadiyan/Task-1.2
  6707572..2343a4b  master -> master
branch 'master' set up to track 'origin/master'.
```

```
DAKSH MALIK@LAPTOP-BVKAHE8 MINGW64 /d/Task 1.2/Task-1.2 (master)
$ |
```

Finally checking the results on remote repository after pushing it: →

Commits on May 31, 2022

Conflict is solved and the code is updated

DakshMalik02 committed 36 seconds ago

Updated code

DakshMalik02 committed 11 minutes ago

Update Sum.cpp

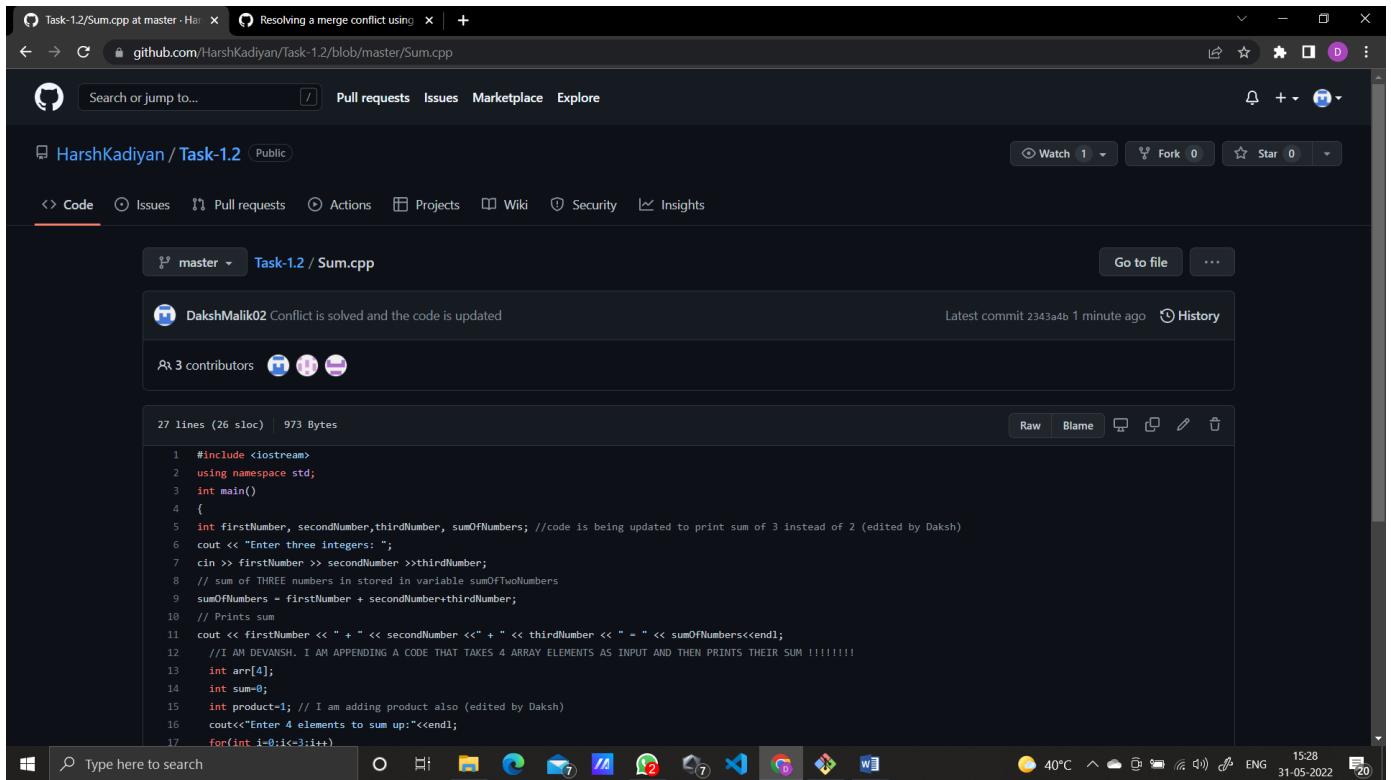
DEVANSH-DOGRA committed 1 hour ago

Initial Commit

HarshKadiyan committed 2 hours ago

Newer Older

Now the Conflicts are resolved:→



The screenshot shows a GitHub repository page for 'HarshKadiyan / Task-1.2'. The 'Code' tab is selected, displaying the 'Task-1.2 / Sum.cpp' file. The commit message indicates a conflict was solved and the code was updated by DakshMalik02. The code itself includes comments explaining changes made, such as printing the sum of three integers instead of two, and appending a section to handle four array elements. The GitHub interface includes a search bar, navigation links, and a dark mode header.

```
27 lines (26 sloc) 973 Bytes
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int firstNumber, secondNumber,thirdNumber, sumOfNumbers; //code is being updated to print sum of 3 instead of 2 (edited by Daksh)
6     cout << "Enter three integers: ";
7     cin >> firstNumber >> secondNumber >> thirdNumber;
8     // sum of THREE numbers is stored in variable sumOfTwoNumbers
9     sumOfNumbers = firstNumber + secondNumber+thirdNumber;
10    // Prints sum
11    cout << firstNumber << " + " << secondNumber << " + " << thirdNumber << " = " << sumOfNumbers<<endl;
12    //I AM DEVANSH. I AM APPENDING A CODE THAT TAKES 4 ARRAY ELEMENTS AS INPUT AND THEN PRINTS THEIR SUM !!!!!!!
13    int arr[4];
14    int sum=0;
15    int product=1; // I am adding product also (edited by Daksh)
16    cout<<"Enter 4 elements to sum up:"<<endl;
17    for(int i=0;i<=3;i++)

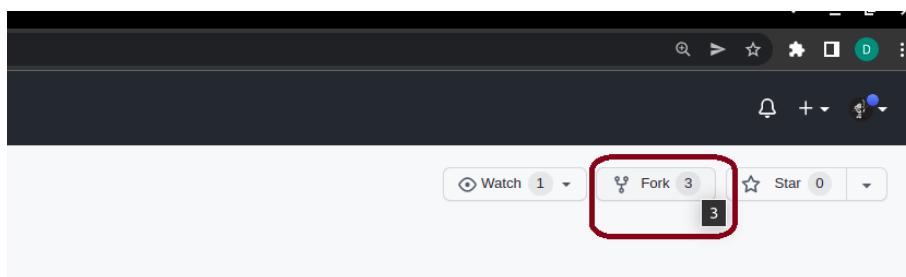
```

FORK AND COMMIT:→

Forking is done on the GitHub Account while Cloning is done using Git. When you fork a repository, you create a copy of the original repository (upstream repository) but the repository remains on your GitHub account. Forking a repository allows you to freely test and debug with changes without affecting the original project. One of the excessive use of forking is to propose changes for bug fixing. Here we have started the group(collaborators) activity. Team member 1: As we can see in the below screenshot he has 9 repositories. I forked the repository "coding-ninja-arrays" to commit changes in it.

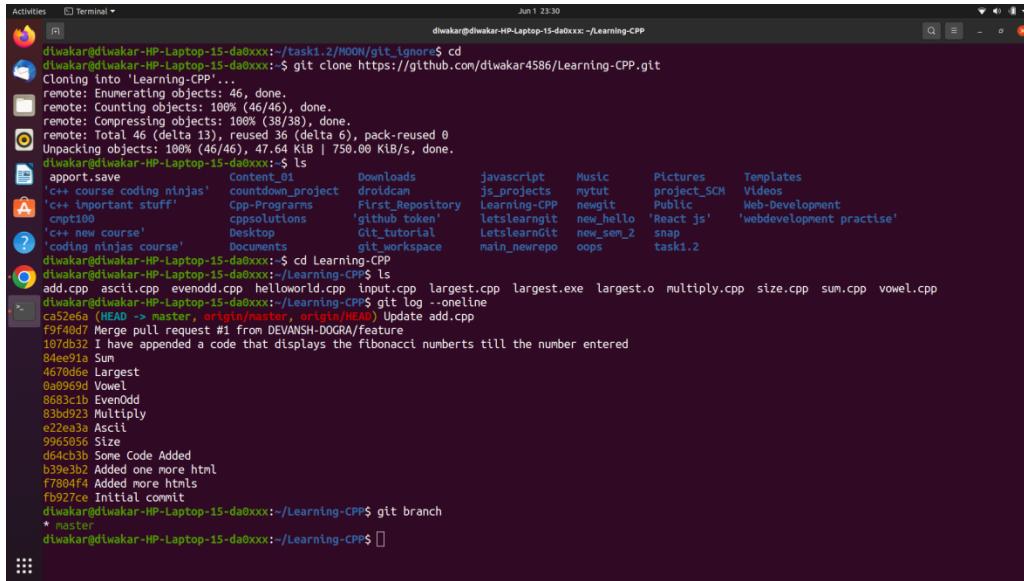
The screenshot shows a GitHub user profile for 'Harsh Kadiyan'. The profile picture is a stylized 'H' composed of pink squares. Below the picture, the name 'Harsh Kadiyan' and handle '@HarshKadiyan' are displayed. A 'Follow' button is present. To the right, there's a section for 'Popular repositories' featuring three repositories: 'Learning-CPP' (highlighted with a red border), 'Basic-Codes' (forked from 'DFVANGI-HODGRAD/BASIC-CODES'), and 'Task-1.2'. Below this is a chart titled '31 contributions in the last year' showing activity from June 2022 to May 2023. At the bottom, a 'Contribution activity' section shows 'Created 1 commit in 1 repository' on June 1, 2022.

Forking is done by using the “Fork” button that is visible on opening the repository. After clicking on it, I successfully get a copy of this repository on my own git hub account.



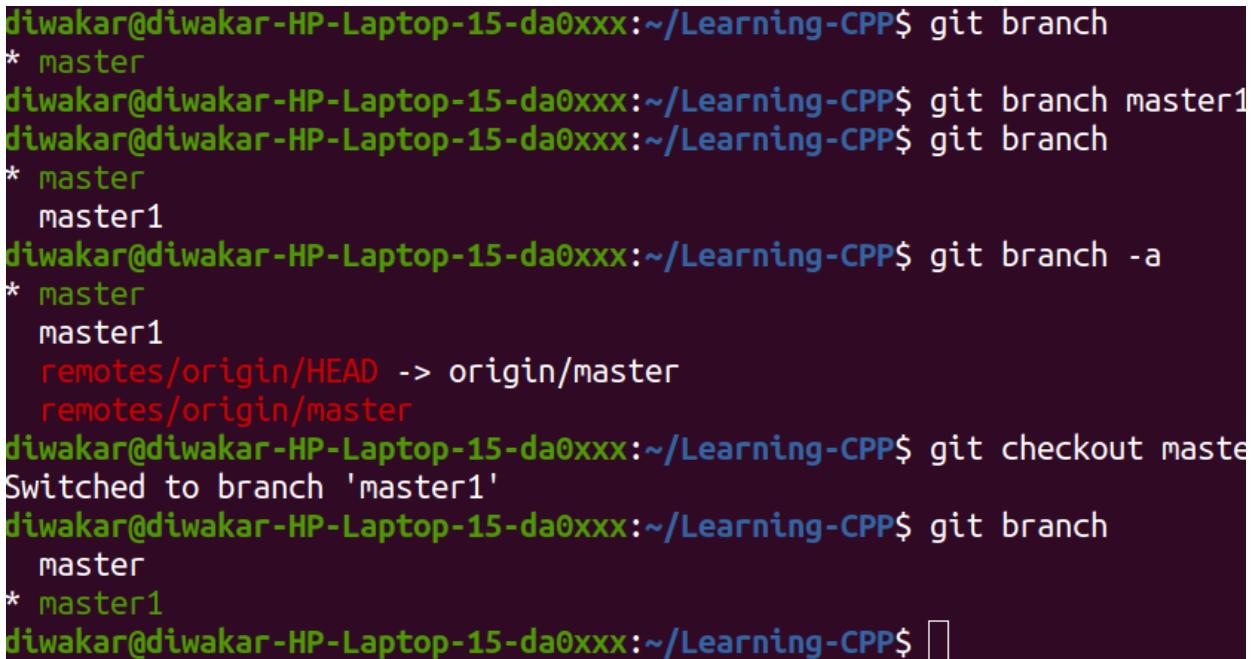
ly experiment with changes without

Now, I am cloning the same repository into my own system(local) using the git clone command to edit it further and commit the changes.



A screenshot of a Linux terminal window titled "Terminal". The terminal shows the command "git clone https://github.com/diwakar4586/Learning-CPP.git" being run. The output of the command is displayed, showing the progress of cloning the repository, which contains 46 files and 36 reused deltas. The terminal also shows the user navigating through the cloned repository's directory structure, listing files like "Content_01", "Downloads", "javascript", "Music", "Pictures", "Templates", "Cpp-Programs", "First_Repository", "Learning-CPP", "newgit", "Public", "Web-Development", "Git_tutorial", "LetsLearnGit", "new_hello", "React js", "webdevelopment practise", "Documents", "git_workspace", "main_newrepo", "oops", and "task1.2". The terminal window has a dark background with light-colored text and icons.

A new branch is created named master1 in which I will make my desired changes.



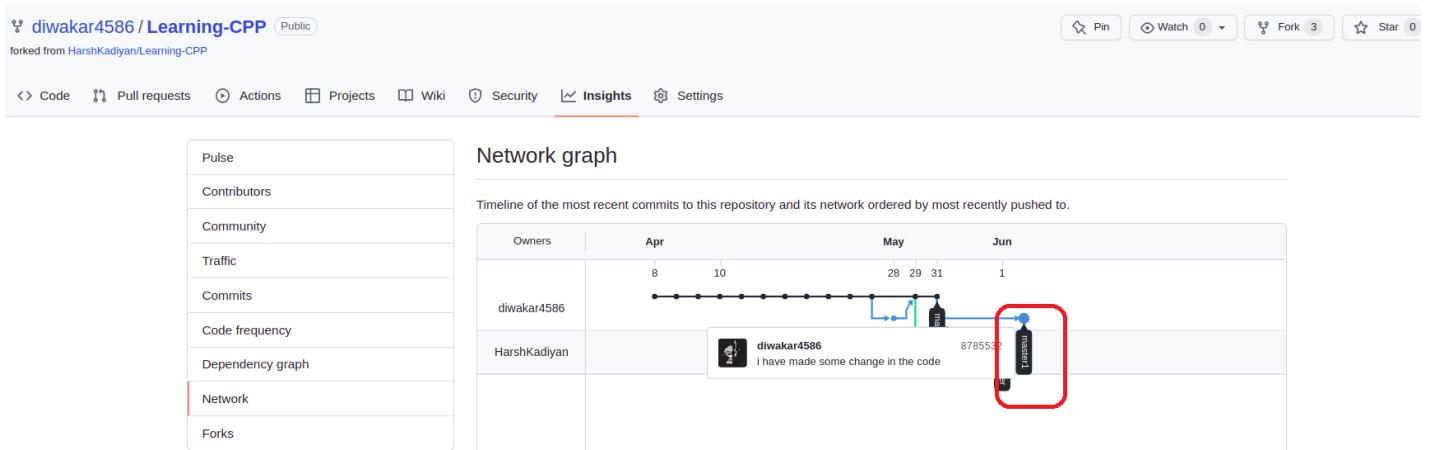
A screenshot of a Linux terminal window titled "Terminal". The terminal shows the user running "git branch" to list existing branches, which shows "master" and "master1". The user then runs "git branch master1" to create a new local branch. After creating the branch, they run "git branch -a" to show all branches, including the remote "origin/master" branch. Finally, the user runs "git checkout master1" to switch to the newly created branch. The terminal window has a dark background with light-colored text and icons.

Git log --oneline command displays those commits that were earlier made.

```
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ git log --oneline
ca52e6a (HEAD -> master1, origin/master, origin/HEAD, master) Update add.cpp
f9f40d7 Merge pull request #1 from DEVANSH-DOGRA/feature
107db32 I have appended a code that displays the fibonacci numbers till the number entered
84ee91a Sum
4670d6e Largest
0a0969d Vowel
8683c1b EvenOdd
83bd923 Multiply
e22ea3a Ascii
9965056 Size
d64cb3b Some Code Added
b39e3b2 Added one more html
f7804f4 Added more htmls
fb927ce Initial commit
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ 
```

As the changes are committed. This file is going to be added to the staging area and then pushed to my own git hub account from where I can generate a pull request to team member 1 to merge into his account.

```
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ git add .
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ git commit -m "i have made some change in the code"
[master1 8785532] i have made some change in the code
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 .sum.swp
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ git push -u origin master
error: src refspec u does not match any
error: failed to push some refs to '...'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ git push -u origin master
Username for 'https://github.com': diwakar4586
Password for 'https://diwakar4586@github.com':
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/diwakar4586/Learning-CPP.git/'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ git push -u origin master1
Username for 'https://github.com': diwakar4586
Password for 'https://diwakar4586@github.com':
Branch 'master' set up to track remote branch 'master' from 'origin'.
Everything up-to-date
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ git push -u origin master1
Username for 'https://github.com': diwakar4586
Password for 'https://diwakar4586@github.com':
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), 467 bytes | 467.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'master1' on GitHub by visiting:
remote:     https://github.com/diwakar4586/Learning-CPP/pull/new/master1
remote:
To https://github.com/diwakar4586/Learning-CPP.git
 * [new branch]      master1 -> master1
Branch 'master1' set up to track remote branch 'master1' from 'origin'.
diwakar@diwakar-HP-Laptop-15-da0xxx:~/Learning-CPP$ 
```



Now after pushing the repo on my git hub account we can see clearly that the Compare & pull request button takes a good shape! On clicking this button a pull request is generated that has to be merged by the team member on whose repo I have committed changes.

The screenshot shows a GitHub pull request page for 'Update add.cpp #2'. The pull request has been merged. The commit message is 'diwakar4586 merged 1 commit into HarshKadian:master from diwakar4586:master 10 hours ago'. Below the commit, there's a comment from 'diwakar4586' saying 'i have made some changes on your code.' and a merge commit from 'diwakar4586' into 'HarshKadian:master'.

Similarly with other team members:→

The screenshot shows a GitHub pull request page for 'Update pattern.html #1'. The pull request has been merged. The commit message is 'diwakar4586 merged 1 commit into DakshMalik02:master from diwakar4586:master 3 minutes ago'. Below the commit, there's a comment from 'diwakar4586' saying 'i have made some changes on your code.' and a merge commit from 'diwakar4586' into 'DakshMalik02:master'.

Reset and Revert:→

Git reset is a powerful command that is used to undo local changes to the state of a Git repo. Git reset operates on "The Three Trees of Git". These trees are the Commit History (HEAD), the Staging Index, and the Working Directory

Git reset can be used to unstage a file –

```
PS C:\Users\HIMANSHU\Documents\GitHub\DSA\New\new> git status -s
deleted: Absolute Number.cpp

staged files:
use "git add <file>..." to include in what will be committed
AbsoluteNumber.cpp
BalancedParenthesis.cpp
BalancedParenthesis.exe
Stacks_using_Array.cpp
Stacks_using_Array.exe
Volume_using_Inheritance.cpp
Volume_using_Inheritance.exe
main.cpp
new.html

changes added to commit (use "git add" and/or "git commit -a")

SH MALIXBLATORP-BVKAME8 MINGW32 /d/new (master)
git add .

SH MALIXBLATORP-BVKAME8 MINGW32 /d/new (master)
git status
branch master
 1 branch is ahead of 'origin/master' by 1 commit.
use "git push" to publish your local commits

changes to be committed:
use "git restore --staged <file>..." to unstage
  renamed: Absolute Number.cpp -> AbsoluteNumber.cpp
  new file: BalancedParenthesis.cpp
  new file: BalancedParenthesis.exe
  new file: Stacks_using_Array.cpp
  new file: Stacks_using_Array.exe
  new file: Volume_using_Inheritance.cpp
  new file: Volume_using_Inheritance.exe
  new file: main.cpp
  new file: new.html

SH MALIXBLATORP-BVKAME8 MINGW32 /d/new (master)
git reset
staged changes after reset:
  Absolute Number.cpp

SH MALIXBLATORP-BVKAME8 MINGW32 /d/new (master)
git status
branch master
 1 branch is ahead of 'origin/master' by 1 commit.
use "git push" to publish your local commits

changes not staged for commit:
use "git add/rm <file>..." to update what will be committed
use "git restore <file>..." to discard changes in working directory
 deleted: Absolute Number.cpp

staged files:
use "git add <file>..." to include in what will be committed
AbsoluteNumber.cpp
BalancedParenthesis.cpp
BalancedParenthesis.exe
Stacks_using_Array.cpp
Stacks_using_Array.exe
Volume_using_Inheritance.cpp
Volume_using_Inheritance.exe
main.cpp
new.html

changes added to commit (use "git add" and/or "git commit -a")
```

Git revert command is used for undoing changes after pushing to the remote repo.

Now we have made two commits i.e. 1st commit and 2nd commit Refer the last two commits made:

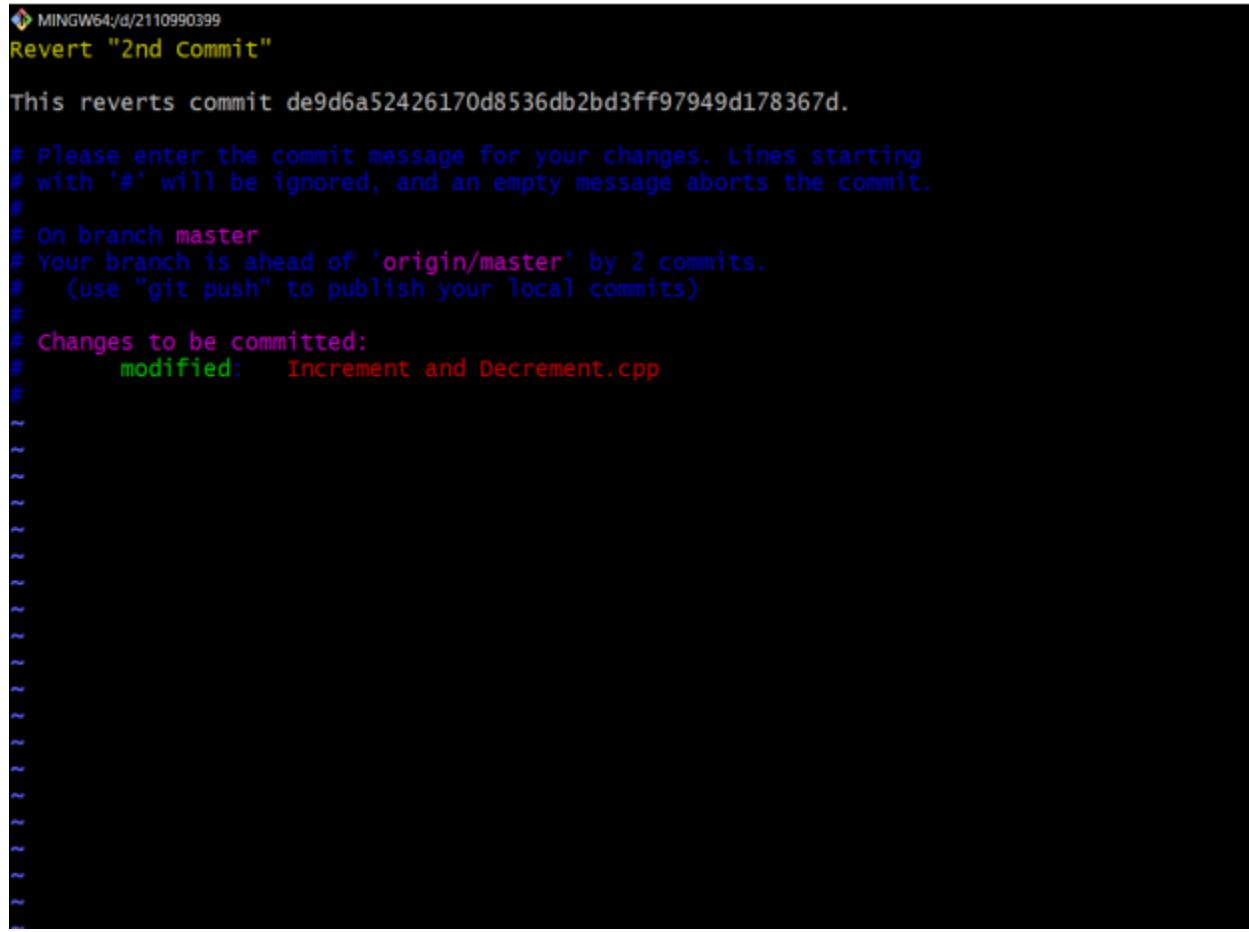
Now push these commits to the remote :

If we use reset command here for undoing changes it will undo the change only from the local repository not from the remote repo so that's why we've to use the revert command.

And also using revert command the limit is not upto only recently commits or only upto 3 or 4 commits we can undo the commits as many we want to make.

Revert command remove the changes in commit but don't remove the commit from the commit history and make a fresh commit to accommodate that reverts.

After using revert command it will display a screen in which we can change the name of our fresh commit –



The screenshot shows a terminal window with the following text:

```
MINGW64/d/2110990399
Revert "2nd Commit"

This reverts commit de9d6a52426170d8536db2bd3ff97949d178367d.

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch master
# Your branch is ahead of 'origin/master' by 2 commits.
#   (use "git push" to publish your local commits)

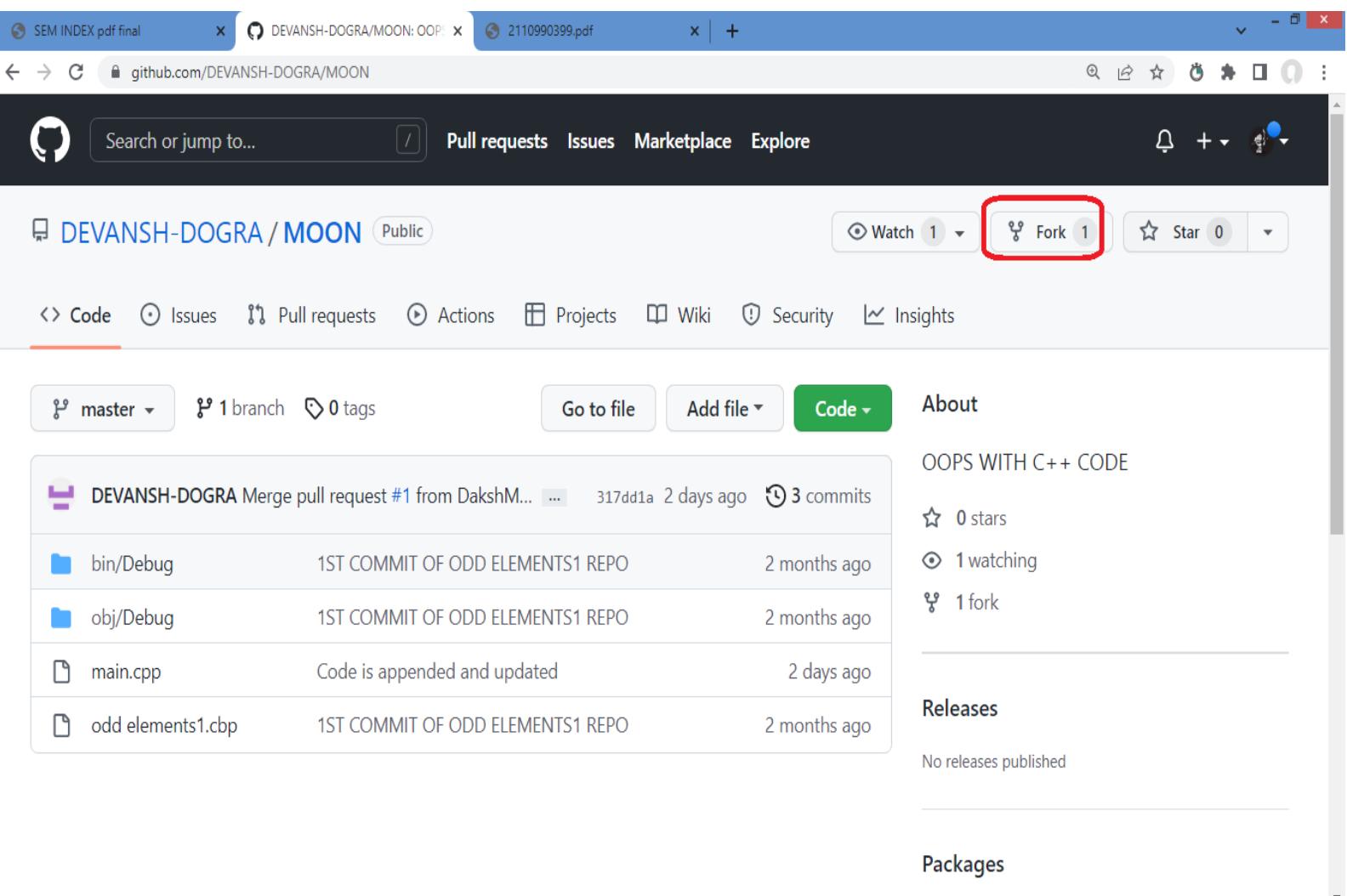
Changes to be committed:
  modified:  Increment and Decrement.cpp
```

Now check for commit history by using the command git log --oneline :

```
MISHA-MALIK-DESKTOP-DVDRW01: MINGW64 /d/211055055 (master)
git log --oneline
lab35a (HEAD -> master) Revert "2nd Commit"
e9d6a5 2nd Commit
81959d 1st Commit
02ab28 (origin/master) task file updated
9a8808 (origin/other, other) changed inside branch
5afc32 new file added
49c61d another commit
506680 deleted some files
9ce8fe Delete s.cpp
f0bf7c Added Task File
9f3241 Adding Files
```

TASK 2 (Distributed Project)

First we will fork a repository from our team member's repository by clicking fork button on the top right corner of the screen.



The screenshot shows a web browser window with three tabs open at the top: "SEM INDEX.pdf final", "DEVANSH-DOGRA/MOON", and "2110990399.pdf". The main content area displays the GitHub repository for "DEVANSH-DOGRA/MOON". The repository is public, as indicated by the "Public" badge. In the top right header, there are buttons for "Watch" (1), "Fork" (1), and "Star" (0). The "Fork" button is highlighted with a red box. Below the header, there are navigation links for "Code", "Issues", "Pull requests", "Actions", "Projects", "Wiki", "Security", and "Insights". The "Code" link is underlined, indicating it is the active tab. On the left, there is a sidebar with a dropdown for the "master" branch, showing "1 branch" and "0 tags". To the right of the sidebar, there are buttons for "Go to file", "Add file", and "Code". The main content area lists several commits:

| File | Commit Message | Date |
|--|----------------------------------|--------------|
| DEVANSH-DOGRA Merge pull request #1 from DakshM... | 317dd1a | 2 days ago |
| bin/Debug | 1ST COMMIT OF ODD ELEMENTS1 REPO | 2 months ago |
| obj/Debug | 1ST COMMIT OF ODD ELEMENTS1 REPO | 2 months ago |
| main.cpp | Code is appended and updated | 2 days ago |
| odd elements1.cbp | 1ST COMMIT OF ODD ELEMENTS1 REPO | 2 months ago |

On the right side of the repository page, there are sections for "About", "Releases", and "Packages". The "About" section includes the repository name "OOPS WITH C++ CODE", the number of stars (0), the number of watchers (1), and the number of forks (1). The "Releases" section indicates "No releases published". The "Packages" section is currently empty.

Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Owner *



diwakar4586 ▾

Repository name *

/ MOON ✓

By default, forks are named the same as their parent repository. You can customize the name to distinguish it further.

Description (optional)

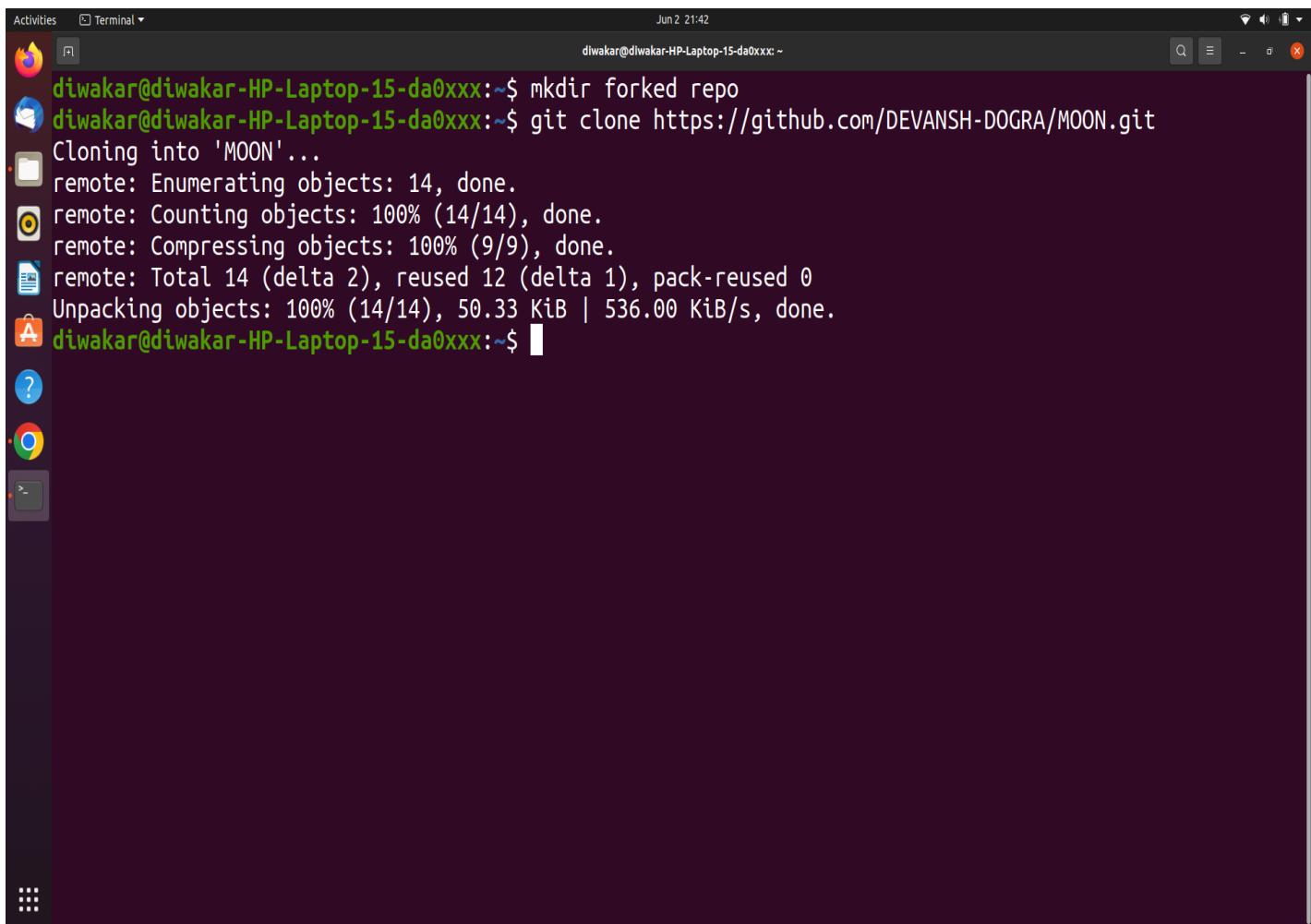
OOPS WITH C++ CODE

You are creating a fork in your personal account.

Create fork

Open and close pull request:→

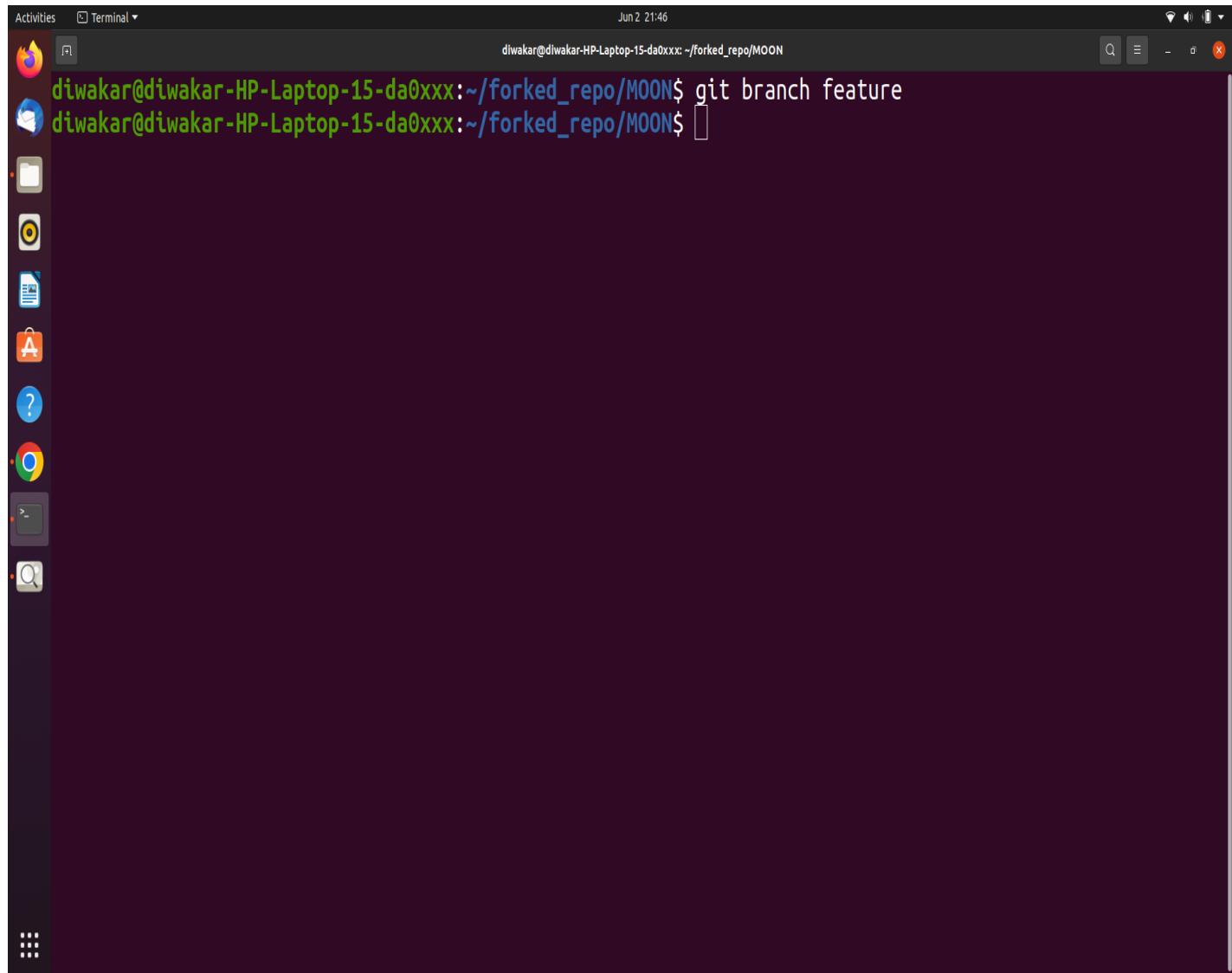
After forking the repository a copy of the same will be created on our profile from there we have to clone it to our local system. Now to do that we have to use a command git clone and the link of the repository we want to clone.



The screenshot shows a terminal window titled "Terminal" in the Activities overview. The terminal is running on a system named "diwakar@diwakar-HP-Laptop-15-da0xxx". The user has run two commands: "mkdir forked_repo" and "git clone https://github.com/DEVANSH-DOGRA/MOON.git". The output of the "git clone" command shows the progress of cloning a repository named "MOON", including object enumeration, counting, compressing, and unpacking. The terminal window has a dark theme and includes a dock with various application icons on the left side.

```
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ mkdir forked_repo
diwakar@diwakar-HP-Laptop-15-da0xxx:~$ git clone https://github.com/DEVANSH-DOGRA/MOON.git
Cloning into 'MOON'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 14 (delta 2), reused 12 (delta 1), pack-reused 0
Unpacking objects: 100% (14/14), 50.33 KiB | 536.00 KiB/s, done.
diwakar@diwakar-HP-Laptop-15-da0xxx:~$
```

Further we have to create a branch to edit the code present inside the repository.

A screenshot of an Ubuntu desktop environment. On the left, there's a vertical dock with icons for various applications like Dash, Home, and System Settings. The main area shows a terminal window titled "Terminal". The terminal has a dark background and displays the following text:

```
Activities Terminal Jun 2 21:46
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$ git branch feature
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$
```

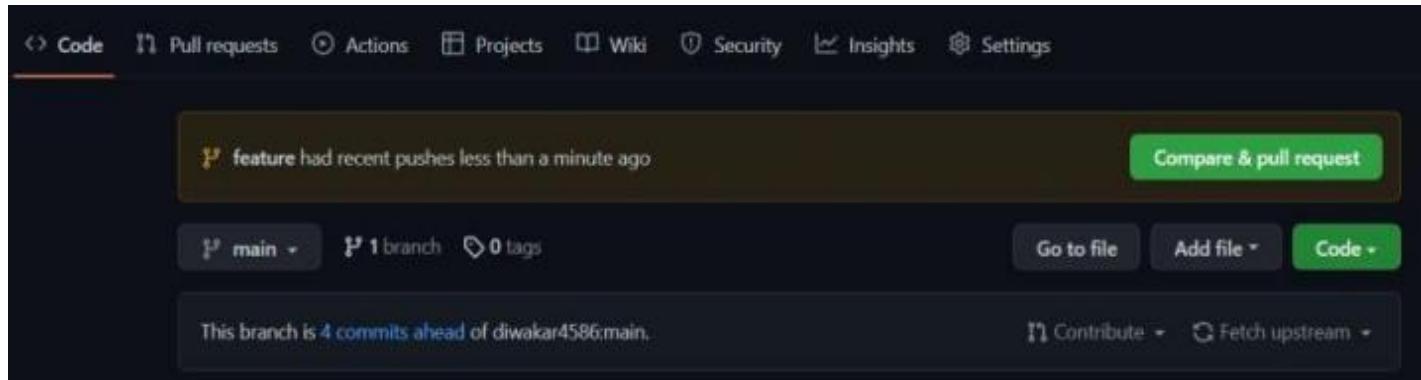
The terminal window has a standard Linux-style header with "Activities", "Terminal", and a date/time indicator. It also includes standard window control buttons (minimize, maximize, close) in the top right corner.

Now we have to edit the code and push it on the remote repository inside our feature branch.

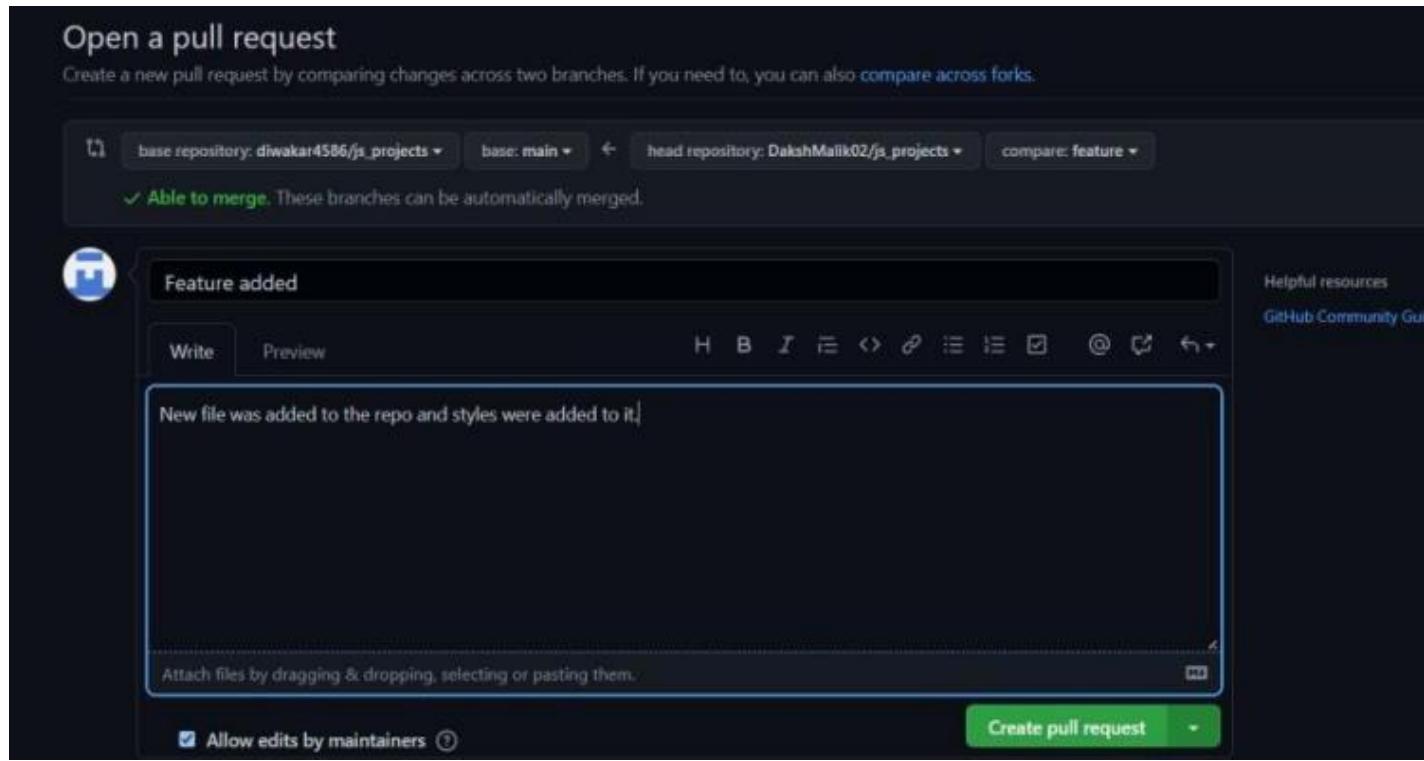
```
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$ git checkout feature
Switched to branch 'feature'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$ ls
bin  main.cpp  obj  'odd elements1.cbp'
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$ git status
On branch feature
nothing to commit, working tree clean
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$ git status
On branch feature
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .main.cpp.swp

nothing added to commit but untracked files present (use "git add" to track)
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$ git add .
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$ git commit -m "new comment added to the file"
[feature 70fcdf9] new comment added to the file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 .main.cpp.swp
diwakar@diwakar-HP-Laptop-15-da0xxx:~/forked_repo/MOON$ git push -u origin feature
Username for 'https://github.com': diwakar4586
Password for 'https://diwakar4586@github.com':
```

After that we have to click the button compare and pull request to pull a request to the original repository.



Further we have to add description about the new feature added and then click the button Create pull request to open a new pull request.



Each project member shall create a pull request on a team members repo and close pull requests generated by team members on own Repo as a maintainer:

The screenshot shows a GitHub repository interface. At the top, there's a message: "feature had recent pushes less than a minute ago" with a "Compare & pull request" button. Below that, the repository stats are shown: "master" branch, "1 branch", "0 tags", "Go to file", "Add file", and "Code". A note says "This branch is up to date with DEVANSH-DOGRA/MOON:master." with "Contribute" and "Fetch upstream" buttons. The commit history lists four commits from "DEVANSH-DOGRA" on Mar 21, all titled "1ST COMMIT OF ODD ELEMENTS1 REPO" and made "2 months ago". The files affected are "bin/Debug", "obj/Debug", "main.cpp", and "odd elements1.cpp". At the bottom, there's a message: "Help people interested in this repository understand your project by adding a README." with an "Add a README" button.

p feature had recent pushes less than a minute ago

Compare & pull request

master • 1 branch 0 tags Go to file Add file • Code •

This branch is up to date with DEVANSH-DOGRA/MOON:master.

Contribute • Fetch upstream •

DEVANSH-DOGRA 1ST COMMIT OF ODD ELEMENTS1 REPO ad788ac on Mar 21 1 commit

| File | Commit Message | Time Ago |
|-------------------|----------------------------------|--------------|
| bin/Debug | 1ST COMMIT OF ODD ELEMENTS1 REPO | 2 months ago |
| obj/Debug | 1ST COMMIT OF ODD ELEMENTS1 REPO | 2 months ago |
| main.cpp | 1ST COMMIT OF ODD ELEMENTS1 REPO | 2 months ago |
| odd elements1.cpp | 1ST COMMIT OF ODD ELEMENTS1 REPO | 2 months ago |

Help people interested in this repository understand your project by adding a README.

Add a README

diwakar4586 / js_projects Public

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Feature added #1

[Open](#) DakshMalik02 wants to merge 2 commits into diwakar4586:main from DakshMalik02:feature

Conversation 0 Commits 2 Checks 0 Files changed 1

 DakshMalik02 commented 2 hours ago First-time contributor 

New file was added to the repo and styles were added to it.

 DakshMalik02 added 2 commits 3 hours ago

- o  added a new file e932405
- o  Styles added to the file 0e28d33

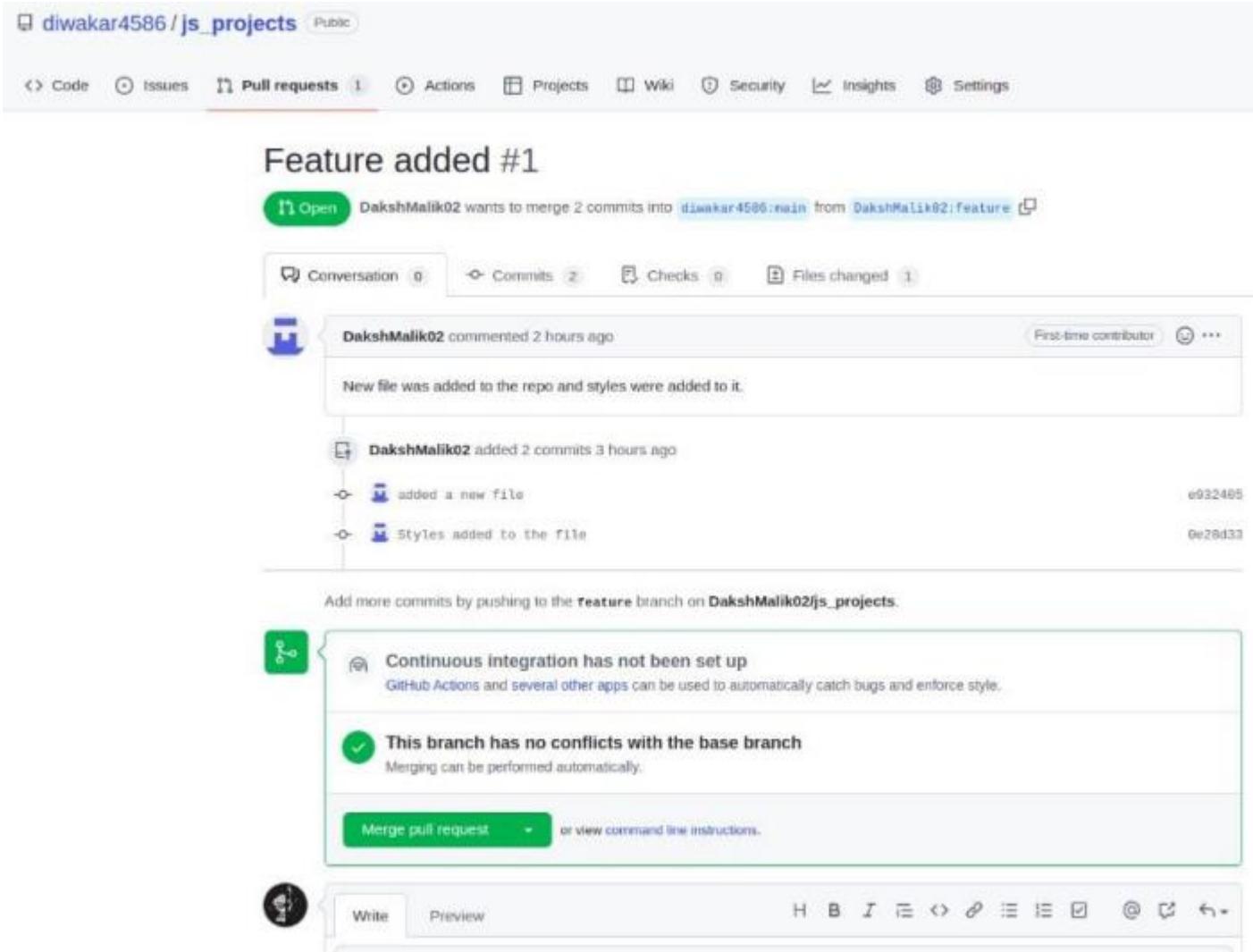
Add more commits by pushing to the **Feature** branch on [DakshMalik02/js_projects](#).

 Continuous integration has not been set up GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

 This branch has no conflicts with the base branch Merging can be performed automatically.

Merge pull request or view command line instructions.

Write Preview 



MAIL GOT FROM TEAM MEMBERS DURING COLLABORATION →

The screenshot shows a Gmail inbox with the following details:

- Activity Bar:** Shows multiple open tabs including WhatsApp, G8 Files - Google Drive, diwakar4586/MOON: 0:0, and Re:DakshMalik02/Web-Development.
- Header:** Jun 2 22:11, mail.google.com/mail/u/0/#inbox/FMfcgzGpGKZWTffHVLMZQBbmWLZvCbKm
- Search:** Search all conversations
- Compose:** Compose button
- Inbox:** 616 messages
- Message Preview:**
 - From:** DakshMalik02 <notifications@github.com>
 - To:** DakshMalik02/Web-Development, me, Author
 - Date:** Tue, May 31, 10:39 PM (2 days ago)
 - Subject:** Re: [DakshMalik02/Web-Development] Update pattern.html (PR #1) [External] [Inbox]
 - Content:** Merged #1 into master.
 - Actions:** Reply, Reply all, Forward
- Navigation:** 12 of 1,106, back, forward, search, print, etc.
- Left Sidebar:** Mail, Chat, Spaces, Meet, and a list of recent files including 2110990399.pdf.
- Bottom Bar:** Show all, X

Activities Google Chrome ▾ Jun 2 22:11

(3) WhatsApp x | GB Files - Google Drive x | diwakar4586/MOON:00 x | Re: [DEVANSH-DOGRA/BASIC-CODES] Update c.html (PR #2) x +

mail.google.com/mail/u/0/#inbox/FMfcgzGpGKZWTdWLbqXDMRQIZpGfPCJL

Gmail Search all conversations Active

Compose

13 of 1,106

Re: [DEVANSH-DOGRA/BASIC-CODES] Update c.html (PR #2) External Inbox x

TUE, MAY 31, 10:26 PM (2 DAYS AGO)

DEVANSH-DOGRA <notifications@github.com> Unsubscribe to DEVANSH-DOGRA/BASIC-CODES, me, Author

Merged #2 into master.

Reply to this email directly [view it on GitHub](#), or [unsubscribe](#). You are receiving this because you authored the thread.

Inbox 616 Starred Snoozed Sent Drafts 2 More

Reply Reply all Forward

Chat +

No spaces yet Create or find a space

Meet

2110990399.pdf Show all X

Activities Google Chrome ▾ Jun 2 22:13

(3) WhatsApp x | GB Files - Google Drive x | diwakar4586/MOON:00 x [diwakar4586/coding-ninj] x +

mail.google.com/mail/u/0/#inbox/FMfgzGpCKTlrlXLJGVCVVqrHZShfMW

Gmail Search all conversations Active

Compose 23 of 1,106

[diwakar4586/coding-ninja-arrays] I have appended a new program to SWAP 2 NOS.USING FUNCTIONS into ADD... (PR #1) External Inbox

DEVANSH-DOGRA <notifications@github.com> Unsubscribe Sat, May 28, 4:03 PM (5 days ago)

to diwakar4586/coding-ninja-arrays, Subscribed

... ELEMENTS OF 2 ARRAYS of this repo.

You can view, comment on, or merge this pull request online at:

<https://github.com/diwakar4586/coding-ninja-arrays/pull/1>

Commit Summary

- 683065 I have appended a new program to SWAP 2 NOS.USING FUNCTIONS into ADD ELEMENTS OF 2 ARRAYS of this repo

File Changes (2 files)

Chat + A add_elements_of_two_array.cpp.swp (0)
+ M add_elements_of_two_array.cpp (25)

Spaces + Patch Links:
<https://github.com/diwakar4586/coding-ninja-arrays/pull/1.patch>
<https://github.com/diwakar4586/coding-ninja-arrays/pull/1.diff>

Reply to this email directly, [view it on GitHub](#), or [unsubscribe](#).
You are receiving this because you are subscribed to this thread.

No spaces yet
Create or find a space

Reply Reply all Forward

Meet

2110990399.pdf Show all X