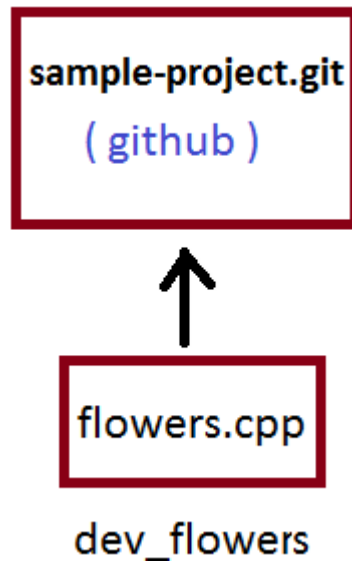We will now upload multiple commits to github from another directory.

Create a directory by name 'dev_flowers'

fms@git_practice:~$ **mkdir dev_flowers**
fms@git_practice:~$ **cd dev_flowers**
fms@git_practice:~/dev_flowers$

Clone the project from github. This should fetch our first commit that we made which is fruits.c file.

fms@git_practice:~/dev_flowers$ **git clone** **https://github.com/srivalli-projects/sample-project.git**
Cloning into 'sample-project'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
fms@git_practice:~/dev_flowers$

fms@git_practice:~/dev_flowers$ **ls**
sample-project
fms@git_practice:~/dev_flowers$ **cd sample-project**
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **ls -al**
total 16
drwxr-xr-x 3 fms fms 4096 Nov 6 13:21 .
drwxr-xr-x 3 fms fms 4096 Nov 6 13:21 ..

-rw-r--r-- 1 fms fms   6 Nov 6 13:21 fruits.c
drwxr-xr-x 8 fms fms 4096 Nov 6 13:21 .git
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **git log**
commit 36c5a24d35f6103fb391139008161f938bcefbaf (HEAD -> master, origin/master, origin/HEAD)
Author: Dev-Fruits <dev_fruits@FRUITS.com>
Date: Mon Nov 5 17:33:09 2018 +0530

    created a file fruits.c
fms@git_practice:~/dev_flowers/sample-project$

Cool, we got our first commit in this new folder.

fms@git_practice:~/dev_flowers/sample-project$ **git status**
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **git branch**
* master
fms@git_practice:~/dev_flowers/sample-project$

Now create a new file flowers.cpp

fms@git_practice:~/dev_flowers/sample-project$ **vi flowers.cpp**
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **cat flowers.cpp**
Rose
Lilly
Jasmine
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **git status**
On branch master
Your branch is up to date with 'origin/master'.

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

flowers.cpp

nothing added to commit but untracked files present (use "git add" to track)
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **git add flowers.cpp**
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **git status**
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file: flowers.cpp

fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **cat ~/.gitconfig**

[user]
    email = dev_fruits@FRUITS.com
    name = Dev-Fruits
fms@git_practice:~/dev_flowers/sample-project$

We do not want to commit with the name Dev-Fruits. So change the config
file and update name to 'Dev-Flowers'.

fms@git_practice:~/dev_flowers/sample-project$ **vi .git/config**

fms@git_practice:~/dev_flowers/sample-project$ **cat .git/config**
[core]
    repositoryformatversion = 0
    filemode = true
    bare = false
    logallrefupdates = true
[remote "origin"]
    url = https://github.com/srivalli-projects/sample-project.git
    fetch = +refs/heads/*:refs/remotes/origin/*
[branch "master"]
    remote = origin
    merge = refs/heads/master
[user]

```
        email = dev_flowers@FLOWERS.com
        name = Dev-Flowers
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ git commit -m "created
flowers.cpp"
[master a135ee5] created flowers.cpp
 1 file changed, 3 insertions(+)
 create mode 100644 flowers.cpp
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ git log
commit a135ee5c3e032c5120641d80efa7cf05ab1a73ad (HEAD -> master)
Author: Dev-Flowers <dev_flowers@FLOWERS.com>
Date:   Tue Nov 6 13:26:04 2018 +0530

    created flowers.cpp

commit 36c5a24d35f6103fb391139008161f938bcefbaf (origin/master,
origin/HEAD)
Author: Dev-Fruits <dev_fruits@FRUITS.com>
Date:   Mon Nov 5 17:33:09 2018 +0530

    created a file fruits.c
fms@git_practice:~/dev_flowers/sample-project$
```

We got 2 commits now in log. The latest commit will be always on the top which is referred to as HEAD.
Check the author in these 2 commits. Notice that whatever we update in config file is for our identity – who changed what.

```
fms@git_practice:~/dev_flowers/sample-project$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
fms@git_practice:~/dev_flowers/sample-project$
```

Branch is ahead of origin?
It means that our master branch has two commits and our origin in github has only one commit.

Now we will modify the file that is uploaded by Dev-Fruits. Our identity in commit will be Dev-Flowers.

fms@git_practice:~/dev_flowers/sample-project$ **vi fruits.c**
fms@git_practice:~/dev_flowers/sample-project$ **git add fruits.c**
fms@git_practice:~/dev_flowers/sample-project$ **git commit -m "updated fruits.c"**
[master 49a0f6b] updated fruits.c
 1 file changed, 1 insertion(+)
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **git log**
commit 544e581fbb2e10e90fe64e6cb1567b48b22e1a44 (HEAD -> master)
Author: Dev-Flowers <dev_flowers@FLOWERS.com>
Date: Tue Nov 6 13:27:18 2018 +0530

    updated fruits.c

commit a135ee5c3e032c5120641d80efa7cf05ab1a73ad
Author: Dev-Flowers <dev_flowers@FLOWERS.com>
Date: Tue Nov 6 13:26:04 2018 +0530

    created flowers.cpp

commit 36c5a24d35f6103fb391139008161f938bcefbaf (origin/master, origin/HEAD)
Author: Dev-Fruits <dev_fruits@FRUITS.com>
Date: Mon Nov 5 17:33:09 2018 +0530

    created a file fruits.c
fms@git_practice:~/dev_flowers/sample-project$

fms@git_practice:~/dev_flowers/sample-project$ **git push origin master**
Username for 'https://github.com': srivalli-projects
Password for 'https://srivalli-projects@github.com':
Counting objects: 6, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 580 bytes | 580.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0)
To https://github.com/srivalli-projects/sample-project.git
   36c5a24..544e581 master -> master
fms@git_practice:~/dev_flowers/sample-project$

<> Code   ⓘ Issues **0**   🕹 Pull requests **0**   ▥ Projects **0**

Sample project to understand git

Manage topics

⏀ 3 commits	⑂ 1 branch

Branch: master ▾   New pull request

Dev-Flowers and **Dev-Flowers** updated fruits.c

📄 flowers.cpp	created flowers.cpp
📄 fruits.c	updated fruits.c

Branch: master ▾

Commits on Nov 6, 2018

updated fruits.c		
Dev-Flowers authored and Dev-Flowers committed 12 minutes ago	544e581	<>

created flowers.cpp		
Dev-Flowers authored and Dev-Flowers committed 14 minutes ago	a135ee5	<>

Commits on Nov 5, 2018

created a file fruits.c		
Dev-Fruits authored and Dev-Fruits committed 20 hours ago	36c5a24	<>