05/07/2021

RLMCA232 - System Design Lab
Aim :To Learn about push,clone,pull and gitub
merge and conflict concepts

```
    (use "git restore <file>..." to discard changes in working directory)
        modified:   works/1.odt

Untracked files:
    (use "git add <file>..." to include in what will be committed)
        11.png
        works/15 Sujith Kumar R Exp 2.pdf

no changes added to commit (use "git add" and/or "git commit -a")
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git add .
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git commit -a -m "feat:added new file"
[master 6aa0a8c] feat:added new file
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 11.png
 rewrite works/1.odt (90%)
 create mode 100644 works/15 Sujith Kumar R Exp 2.pdf
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git ststus
git: 'ststus' is not a git command. See 'git --help'.

The most similar command is
        status
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git status
On branch master
nothing to commit, working tree clean
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git push
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin master

sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$  git push --set-upstream origin master
Username for 'https://github.com': ^X
Password for 'https://@github.com':

remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Sujith175/class_demo.git/'
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git remote -v
origin  https://github.com/Sujith175/class_demo.git (fetch)
origin  https://github.com/Sujith175/class_demo.git (push)
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git push --set-upstream origin master
Username for 'https://github.com': Sujith175
Password for 'https://Sujith175@github.com':
Enumerating objects: 45, done.
Counting objects: 100% (45/45), done.
Delta compression using up to 4 threads
Compressing objects: 100% (41/41), done.
Writing objects: 100% (45/45), 3.00 MiB | 614.00 KiB/s, done.
Total 45 (delta 23), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (23/23), done.
To https://github.com/Sujith175/class_demo.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$
```

👁 Unwatch ▾ | 1 ☆ Star | 0 ⑂ Fork | 0

⑂ master ▾ | ⑂ **1** branch | 🏷 **0** tags

Go to file | Add file ▾ | ⬇ Code ▾

Sujith175 feat:added new file

6aa0a8c 3 minutes ago | 🕐 **10** commits

📁	works	feat:added new file	3 minutes ago
📄	1.png	feat:added new feature	14 days ago
📄	10.png	refactor:added 10 png	14 days ago
📄	11.png	feat:added new file	3 minutes ago
📄	2.png	feat:added new feature	14 days ago
📄	4.png	feat:added new feature	14 days ago
📄	5.png	refactor:added new files in to feature	14 days ago
📄	9.png	refactor:added 1 img file	14 days ago
📄	feature_file	refactor:added new files in to feature	14 days ago
📄	file1	refactor:edited added file 1	16 days ago
📄	file2	refactor:modified file 2	16 days ago
📄	file3	refactor:added new file file 3	16 days ago

Add a README with an overview of your project. | Add a README

About
⚙

No description, website, or topics provided.

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

```
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git branch newfeat
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git checkout newfeat
Switched to branch 'newfeat'
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ vim connection.txt
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git status
On branch newfeat
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        connection.txt

nothing added to commit but untracked files present (use "git add" to track)
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git add .
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git commit -a -m "feat:added new connection"
[newfeat bcbb7f3] feat:added new connection
 1 file changed, 1 insertion(+)
 create mode 100644 connection.txt
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git status
On branch newfeat
nothing to commit, working tree clean
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git merge newfeat
Updating 6aa0a8c..bcbb7f3
Fast-forward
 connection.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 connection.txt
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ 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
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git push
Username for 'https://github.com': Sujith175
Password for 'https://Sujith175@github.com':
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% (3/3), 307 bytes | 307.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Sujith175/class_demo.git
   6aa0a8c..bcbb7f3  master -> master
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$
```

```
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git branch
* master
  newfeat
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git checkout newfeat
Switched to branch 'newfeat'
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ vim add.txt
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git add .
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git commit -a -m "reactor:added numbers to add"
[newfeat e5e52e6] reactor:added numbers to add
 1 file changed, 17 insertions(+)
 create mode 100644 add.txt
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git push
fatal: The current branch newfeat has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin newfeat

sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$  git push --set-upstream origin newfeat
Username for 'https://github.com': Sujith175
Password for 'https://Sujith175@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), 312 bytes | 312.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'newfeat' on GitHub by visiting:
remote:      https://github.com/Sujith175/class_demo/pull/new/newfeat
remote:
To https://github.com/Sujith175/class_demo.git
 * [new branch]      newfeat -> newfeat
Branch 'newfeat' set up to track remote branch 'newfeat' from 'origin'.
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$
```

<> Code   ⊙ Issues   ⅰ↓ Pull requests   ⊙ Actions   ▦ Projects   ⛉ Security   ⤴ Insights   ⚙ Settings

ⅰ↗ **newfeat** had recent pushes less than a minute ago

Compare & pull request

ⅰ↗ newfeat ▾   ⅰ↗ **2** branches   ⬦ **0** tags   Go to file   Add file ▾   ⬇ Code ▾

Switch branches/tags   ✕

Find or create a branch…

Branches   Tags

master   default

✓ newfeat

View all branches

⇅ Contribute ▾

e5e52e6 1 minute ago   ⟳ **12** commits

	feat:added new file	11 minutes ago
	feat:added new feature	14 days ago
📄 10.png	refactor:added 10 png	14 days ago
📄 11.png	feat:added new file	11 minutes ago
📄 2.png	feat:added new feature	14 days ago
📄 4.png	feat:added new feature	14 days ago
📄 5.png	refactor:added new files in to feature	14 days ago
📄 9.png	refactor:added 1 img file	14 days ago
📄 add.txt	reactor:added numbers to add	1 minute ago
📄 connection.txt	feat:added new connection	4 minutes ago
📄 feature_file	refactor:added new files in to feature	14 days ago
📄 file1	refactor:edited added file 1	16 days ago
📄 file2	refactor:modified file 2	16 days ago
📄 file3	refactor:added new file file 3	16 days ago

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About   ⚙

No description, website, or topics provided.

Releases

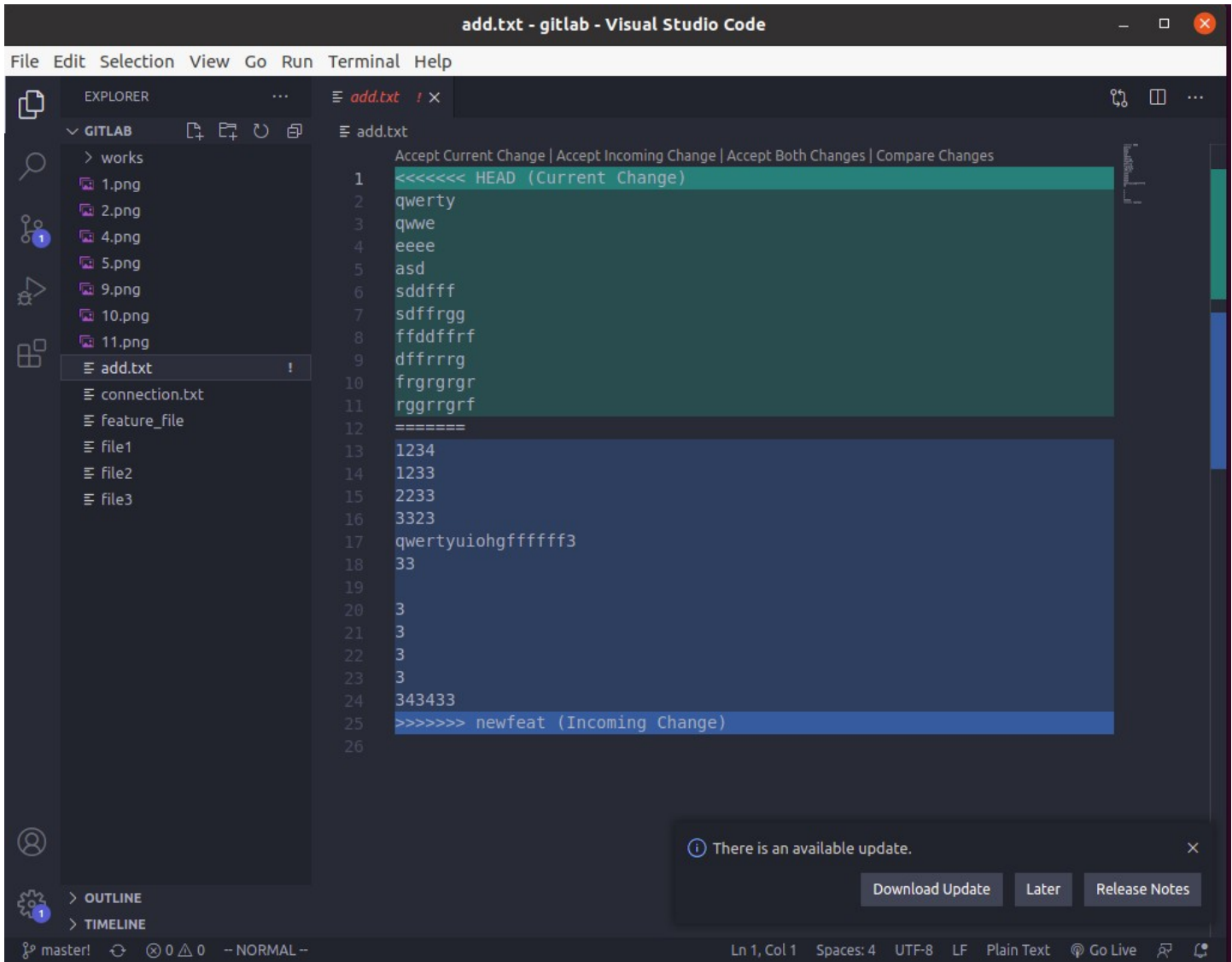No releases published
Create a new release

Packages

No packages published
Publish your first package

```
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ vim add.txt
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git commit -a -m "refactor:edited add file"
[master 279d4ef] refactor:edited add file
 1 file changed, 10 insertions(+), 17 deletions(-)
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git checkout newfeat
Switched to branch 'newfeat'
Your branch is up to date with 'origin/newfeat'.
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ vim add.txt
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git commit -a -m "refactor:edited add file"
[newfeat c8bbca9] refactor:edited add file
 1 file changed, 1 insertion(+), 6 deletions(-)
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git push
Username for 'https://github.com': Sujith175
Password for 'https://Sujith175@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 312 bytes | 312.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Sujith175/class_demo.git
   e5e52e6..c8bbca9  newfeat -> newfeat
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git push
Username for 'https://github.com': Sujith175
Password for 'https://Sujith175@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 318 bytes | 318.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Sujith175/class_demo.git
   bcbb7f3..279d4ef  master -> master
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git merge newfeat
Auto-merging add.txt
CONFLICT (content): Merge conflict in add.txt
Automatic merge failed; fix conflicts and then commit the result.
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$
```

add.txt - gitlab - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

∨ GITLAB

> works
  1.png
  2.png
  4.png
  5.png
  9.png
  10.png
  11.png
  add.txt   !
  connection.txt
  feature_file
  file1
  file2
  file3

≡ add.txt ! ✕

≡ add.txt

Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes

```
 1  <<<<<<< HEAD (Current Change)
 2  qwerty
 3  qwwe
 4  eeee
 5  asd
 6  sddfff
 7  sdffrgg
 8  ffddffrf
 9  dffrrrg
10  frgrgrgr
11  rggrrgrf
12  =======
13  1234
14  1233
15  2233
16  3323
17  qwertyuiohgffffff3
18  33
19
20  3
21  3
22  3
23  3
24  343433
25  >>>>>>> newfeat (Incoming Change)
26
```

ⓘ There is an available update.   ✕

Download Update   Later   Release Notes

⎇ master!   ↻   ⊗ 0 ⚠ 0   -- NORMAL --   Ln 1, Col 1   Spaces: 4   UTF-8   LF   Plain Text   ⊙ Go Live

```
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git push
Username for 'https://github.com': Sujith175
Password for 'https://Sujith175@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 318 bytes | 318.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Sujith175/class_demo.git
   bcbb7f3..279d4ef  master -> master
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git merge newfeat
Auto-merging add.txt
CONFLICT (content): Merge conflict in add.txt
Automatic merge failed; fix conflicts and then commit the result.
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git merge newfeat
error: Merging is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git status
On branch master
Your branch is up to date with 'origin/master'.

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:   add.txt

no changes added to commit (use "git add" and/or "git commit -a")
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git commit -a -m "refactor:final edit"
[master 469d071] refactor:final edit
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$ git merge newfeat
Already up to date.
sujith@sujith-HP-Laptop-15q-bu0xx:~/gitlab$
```