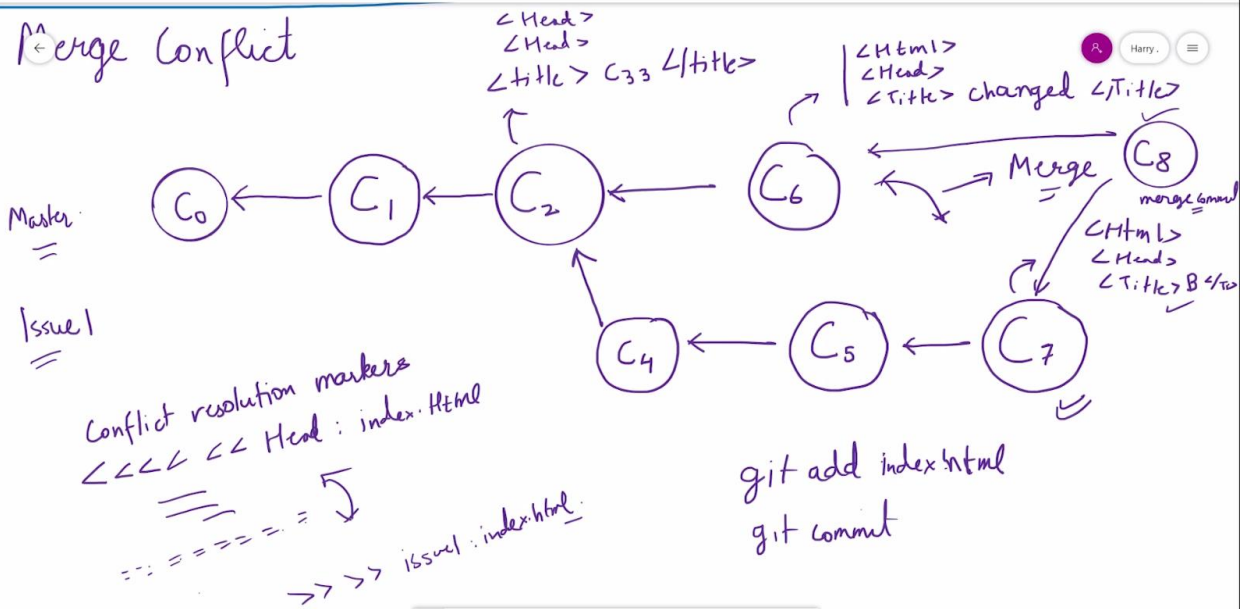


## Merge Conflict



## Branch management

git branch

\* master  
develop  
system

git branch -v

\* master      Commit hash      Commit message  
develop      97b13c      "This will fix"

git branch --merged → already merged branches

git branch --no-merged → not " " "

Deleting branches:

git branch -d develop ⇒ gives error if develop is not merged

" " -D " ⇒ no error & branch gets deleted

Make main folder git repository, stage and then commit those files

```
static/

nothing added to commit but untracked files present (use "git add" to track)
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git add .

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   .gitignore
    new file:   564.xlsx
    new file:   learnC/Appendix/bstr_hello.c
    new file:   learnC/Appendix/bstr_split.c
    new file:   learnC/Appendix/bstr_trim.c
    new file:   learnC/Chapter01/comments.c
    new file:   learnC/Chapter01/hello1.c
    new file:   learnC/Chapter01/hello2.c
    new file:   learnC/Chapter02/hello.c
    new file:   learnC/Chapter02/hello2.c
    new file:   learnC/Chapter02/hello3.c
    new file:   learnC/Chapter02/hello4.c
    new file:   learnC/Chapter02/hello5.c
    new file:   learnC/Chapter02/hello6.c
```

```
new file: static/sdfadf.txt

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git commit -m "Initial commit"
[master (root-commit) a081a45] Initial commit
130 files changed, 10578 insertions(+)
create mode 100644 .gitignore
create mode 100644 564.xlsx
create mode 100644 learnC/Appendix/bstr_hello.c
create mode 100644 learnC/Appendix/bstr_split.c
create mode 100644 learnC/Appendix/bstr_trim.c
create mode 100644 learnC/Chapter01/comments.c
create mode 100644 learnC/Chapter01/hello1.c
create mode 100644 learnC/Chapter01/hello2.c
create mode 100644 learnC/Chapter02/hello.c
create mode 100644 learnC/Chapter02/hello2.c
create mode 100644 learnC/Chapter02/hello3.c
create mode 100644 learnC/Chapter02/hello4.c
create mode 100644 learnC/Chapter02/hello5.c
create mode 100644 learnC/Chapter02/hello6.c
create mode 100644 learnC/Chapter02/hello7.c
create mode 100644 learnC/Chapter02/hello_nowhitespace.c
create mode 100644 learnC/Chapter02/hello_whitespace.c
create mode 100644 learnC/Chapter02/main.c
create mode 100644 learnC/Chapter02/main2.c
create mode 100644 learnC/Chapter02/printingEscapeSequences.c
create mode 100644 learnC/Chapter03/sizes_ranges1.c
create mode 100644 learnC/Chapter03/sizes_ranges2.c

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main
$ cd ..

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main
$ git status
fatal: not a git repository (or any of the parent directories): .git

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main
$ git init
Initialized empty Git repository in E:/videos/Study/cs/important/Git and github/Notes/main/.git/

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        564.xlsx
        learnC/
        renamedFirst.txt
        static/

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |
```

Create new file and then run git status and then track that file and commit changes

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
(use "git add <file>..." to include in what will be committed)
index.html

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git add .

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   index.html

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git commit -m "added index.html"
[master c216224] added index.html
1 file changed, 12 insertions(+)
create mode 100644 index.html

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |

MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
create mode 100644 learnC/Chapter25/circle.c
create mode 100644 learnC/Chapter25/trig.c
create mode 100644 learnC/LICENSE
create mode 100644 learnC/README.md
create mode 100644 renamedFirst.txt
create mode 100644 static/sdfadf.txt

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git add .

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   index.html

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$
```

## Create new branch "issue1"

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git add .

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   index.html

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git commit -m "added index.html"
[master c216224] added index.html
 1 file changed, 12 insertions(+)
 create mode 100644 index.html

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git checkout -b "issue1"
Switched to a new branch 'issue1'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$
```

## change some file and commit the changes

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git commit -m "added index.html"
[master c216224] added index.html
 1 file changed, 12 insertions(+)
 create mode 100644 index.html

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git checkout -b "issue1"
Switched to a new branch 'issue1'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git commit -a -m "first issue1 commit"
[issue1 e4ba902] first issue1 commit
 1 file changed, 1 insertion(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git status
On branch issue1
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$
```

again change some file and commit the changes

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
On branch master
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git checkout -b "issue1"
Switched to a new branch 'issue1'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git commit -a -m "first issue1 commit"
[issue1 e4ba902] first issue1 commit
1 file changed, 1 insertion(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git status
On branch issue1
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git commit -a -m "second issue1 commit"
[issue1 bd4ddfb] second issue1 commit
1 file changed, 1 insertion(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git status
On branch issue1
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$
```

Now switch to master branch and change any file and commit the changes

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
[issue1 e4ba902] first issue1 commit
1 file changed, 1 insertion(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git status
On branch issue1
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git commit -a -m "second issue1 commit"
[issue1 bd4ddfb] second issue1 commit
1 file changed, 1 insertion(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git status
On branch issue1
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git checkout master
Switched to branch 'master'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git commit -a -m "second commit in master"
[master e509b56] second commit in master
1 file changed, 1 insertion(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$
```

Now to merge issue1 branch to master branch (in master branch)

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git commit -a -m "second issue1 commit"
[issue1 bd4ddfb] second issue1 commit
1 file changed, 1 insertion(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git status
On branch issue1
nothing to commit, working tree clean

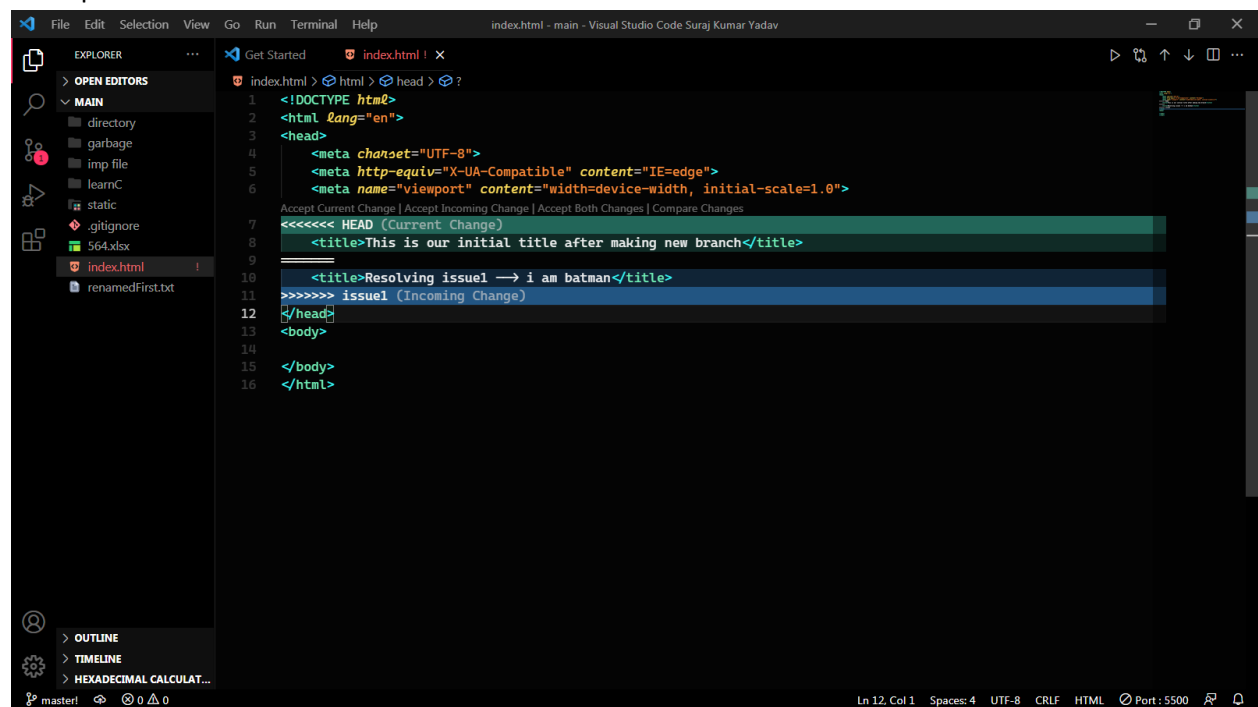
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (issue1)
$ git checkout master
Switched to branch 'master'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git commit -a -m "second commit in master"
[master e509b56] second commit in master
1 file changed, 1 insertion(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git merge issue1
Auto-merging index.html
CONFLICT (content): Merge conflict in index.html
Automatic merge failed; fix conflicts and then commit the result.

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master|MERGING)
$ |
```

now open VS Code and select one



```
index.html - main - Visual Studio Code Suraj Kumar Yadav
index.html > html > head > ?
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <<<<<< HEAD (Current Change)
8     <title>This is our initial title after making new branch</title>
9   <
10  <title>Resolving issue1 -> i am batman</title>
11  >>>>>> issue1 (Incoming Change)
12 </head>
13 <body>
14
15 </body>
16 </html>
```

```

MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master|MERGING)
$ git status
On branch 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:   index.html

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master|MERGING)
$ git add .

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master|MERGING)
$ git status
On branch master
All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:
  modified:   index.html

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master|MERGING)
$

```

to merge finally we have to commit

```

MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
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:   index.html

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master|MERGING)
$ git add .

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master|MERGING)
$ git status
On branch master
All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:
  modified:   index.html

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master|MERGING)
$ git commit -m "finally merged issue1"
[master 973a1c9] finally merged issue1

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |

```



To show all branches → “git branch”

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
Date: Sat May 7 20:11:04 2022 +0530

second issue1 commit

commit e4ba9025d7b9fc130eade55a090f2603f352c205
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:09:41 2022 +0530

first issue1 commit

commit c2162246bbbf49236d17e4fb7e607f69f0022456
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:06:23 2022 +0530

added index.html

commit a081a457e761b118176d08bfe050f15f72ba8117
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:01:34 2022 +0530

Initial commit

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
  issue1
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |
```

To see in more detail → “git branch -v”

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:09:41 2022 +0530

first issue1 commit

commit c2162246bbbf49236d17e4fb7e607f69f0022456
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:06:23 2022 +0530

added index.html

commit a081a457e761b118176d08bfe050f15f72ba8117
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:01:34 2022 +0530

Initial commit

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
  issue1
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch -v
  issue1 bd4ddfb second issue1 commit
* master 973a1c9 finally merged issue1

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |
```

To see already merged branch → “git branch --merged”

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
commit c2162246bbbf49236d17e4fb7e607f69f0022456
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:06:23 2022 +0530

    added index.html

commit a081a457e761b118176d08bfe050f15f72ba8117
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:01:34 2022 +0530

    Initial commit

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
  issue1
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch -v
  issue1 bd4ddfb second issue1 commit
* master 973a1c9 finally merged issue1

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch --merged
  issue1
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |
```

To see branches that are created but not merged

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main

    added index.html

commit a081a457e761b118176d08bfe050f15f72ba8117
Author: Suraj <yadavsurajkumar665@gmail.com>
Date: Sat May 7 20:01:34 2022 +0530

    Initial commit

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
  issue1
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch -v
  issue1 bd4ddfb second issue1 commit
* master 973a1c9 finally merged issue1

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch --merged
  issue1
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch --no-merged

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |
```

since, there is no other branch so nothing is shown

To delete a branch → “git branch -d branchName” → this will delete branch if already merged with master otherwise shows error.

To overcome this problem i.e. to delete branch without merging in master → “git branch -D branchName” → just replace ‘d’ by ‘D’

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
  issue1
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch -v
  issue1 bd4ddfb second issue1 commit
* master 973a1c9 finally merged issue1

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch --merged
  issue1
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch --no-merged

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch -d issue1
Deleted branch issue1 (was bd4ddfb).

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$
```