



Module Title:
Internet Technologies

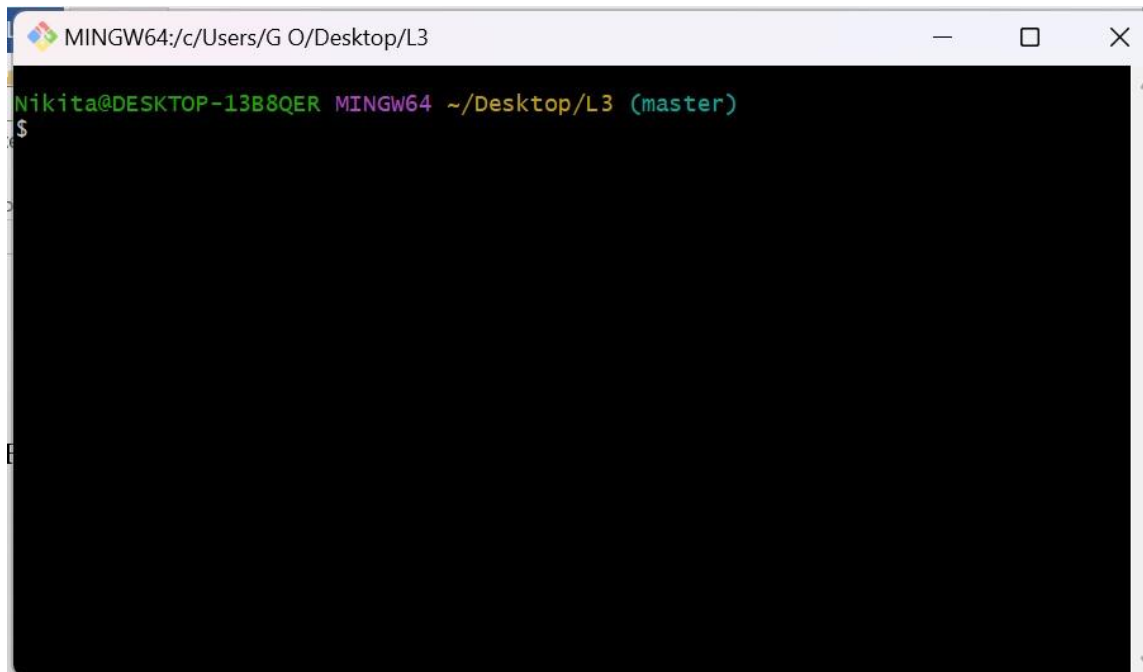
Assignment:
Git and Github

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UWE ID: 23085220

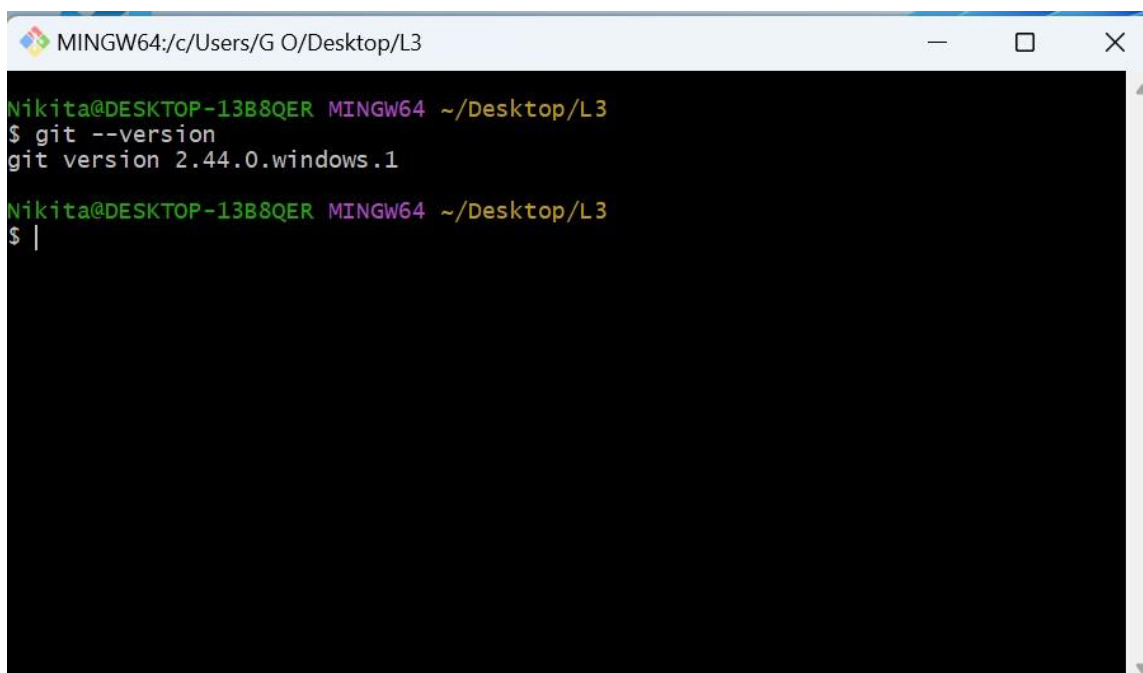
Assignment Submission Date: February 27, 2024

Folder with name L3 created

A terminal window titled 'MINGW64:/c/Users/G O/Desktop/L3' with standard window controls. The prompt is 'Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)'. The cursor is on a new line after a '\$' prompt.

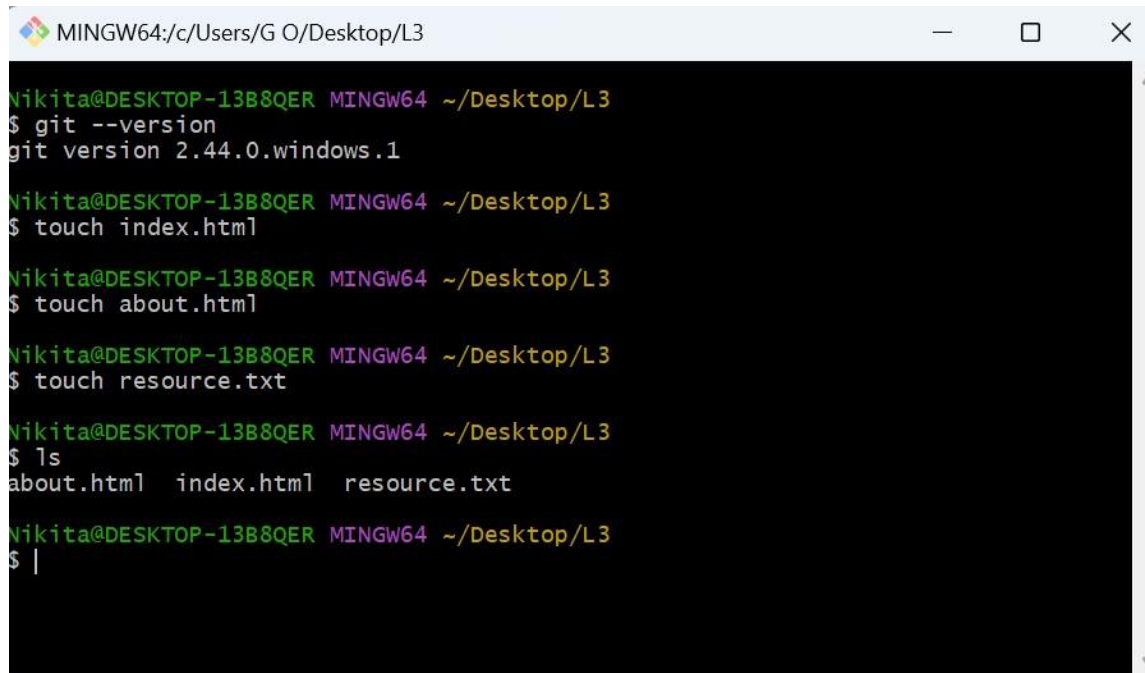
```
MINGW64:/c/Users/G O/Desktop/L3
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$
```

Git version

A terminal window titled 'MINGW64:/c/Users/G O/Desktop/L3' with standard window controls. The prompt is 'Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3'. The command 'git --version' has been entered and executed, showing the output 'git version 2.44.0.windows.1'. The cursor is on a new line after a '\$' prompt.

```
MINGW64:/c/Users/G O/Desktop/L3
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3
$ git --version
git version 2.44.0.windows.1
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3
$ |
```

File added to Folder (L3)



```
MINGW64:/c/Users/G O/Desktop/L3

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3
$ git --version
git version 2.44.0.windows.1

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3
$ touch index.html

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3
$ touch about.html

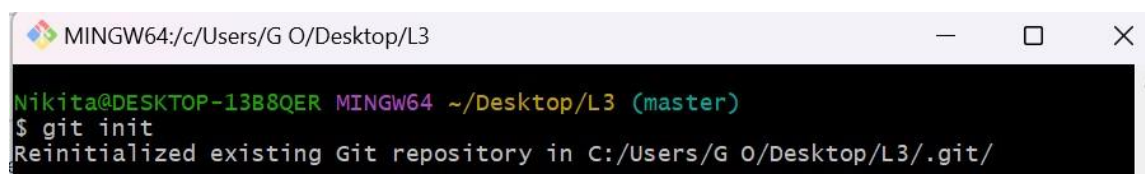
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3
$ touch resource.txt

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3
$ ls
about.html  index.html  resource.txt

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3
$ |
```

Initialization of a Git Repository/Working Directory

- git init



```
MINGW64:/c/Users/G O/Desktop/L3

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git init
Reinitialized existing Git repository in C:/Users/G O/Desktop/L3/.git/
```

- git folder

.git	2/26/2024 7:08 PM	File folder	
about	2/24/2024 2:12 PM	Chrome HTML Docu...	0 KB
index	2/24/2024 2:13 PM	Chrome HTML Docu...	1 KB
resource	2/24/2024 2:13 PM	Text Document	1 KB

Configuring user name and email

```
MINGW64:/c/Users/G O/Desktop/L3
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git config --global user.name "Nikita-NC"
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git config --global user.email "nikitachaudhary354@gmail.com"
```

Checking status and committing change in working directory

- Status checking

```
MINGW64:/c/Users/G O/Desktop/L3
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
  about.html
  index.html
  resource.txt
nothing added to commit but untracked files present (use "git add" to track)
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ |
```

```
MINGW64:/c/Users/G O/Desktop/L3
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   about.html
        new file:   index.html
        new file:   resource.txt

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$
```

- Git commit

```
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git commit -m "Commit"
[master (root-commit) a422c26] Commit
3 files changed, 9 insertions(+)
create mode 100644 about.html
create mode 100644 index.html
create mode 100644 resource.txt

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$
```

Commit history

- Git log

```
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git log
commit 3335a1c2d9a0cfe42ac9fc7c9c5b4a1473c86c8a (HEAD -> master, origin/master)
Author: Nikita-Nc <nikitachaudhary354@gmail.com>
Date: Sat Feb 24 14:14:43 2024 +0545

    First Commit
```

Task 2:- Git and Github

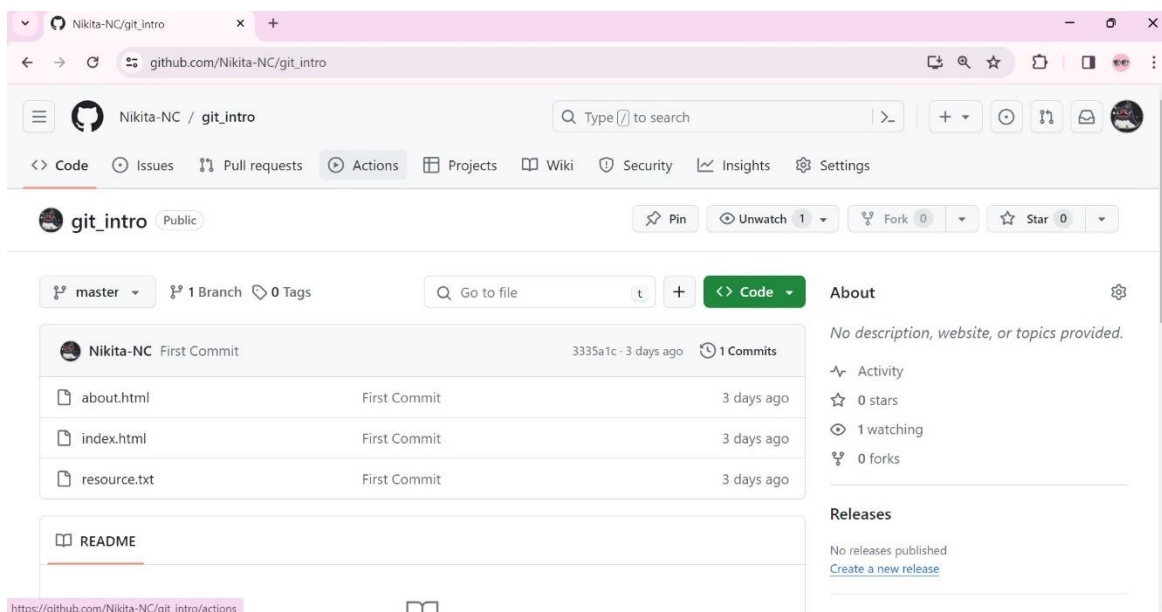
Creating account on Github.com

Use of git bash for following commands

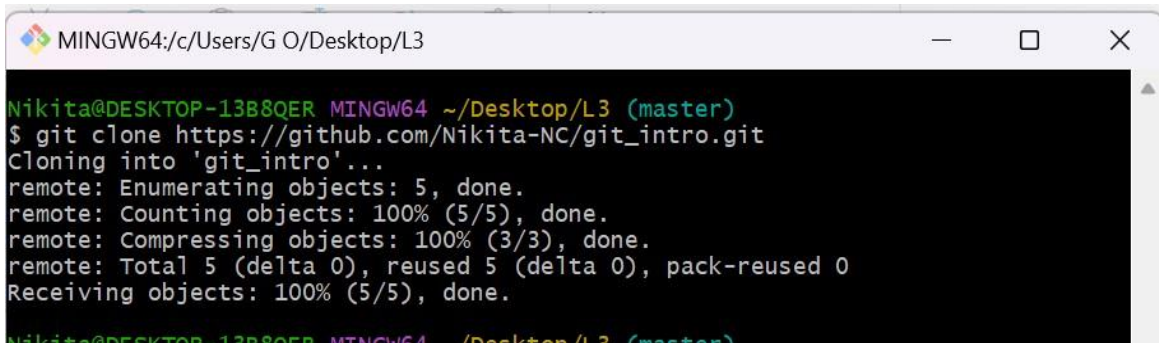
- git remote
- git remote and origin
- git push -u origin master

```
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git remote add origin https://github.com/Nikita-NC/git_intro.git

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git push -u origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 398 bytes | 398.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Nikita-NC/git_intro.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```



Cloned Github Repository

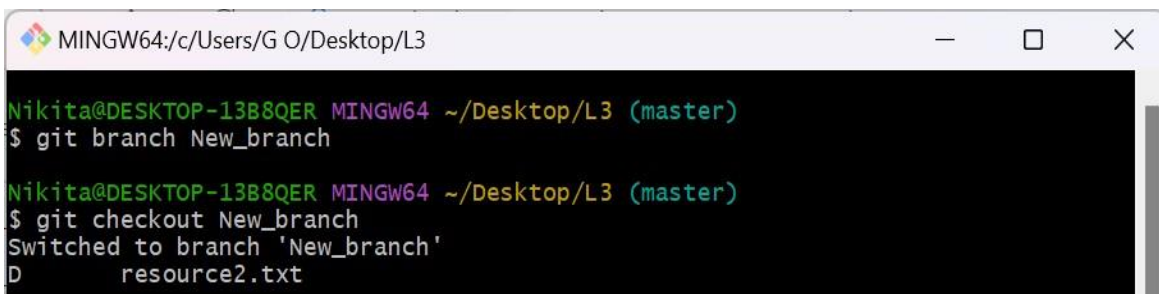


```
MINGW64:/c/Users/G O/Desktop/L3
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git clone https://github.com/Nikita-NC/git_intro.git
Cloning into 'git_intro'...
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0
Receiving objects: 100% (5/5), done.
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
```

Name	Date modified	Type	Size
.git	2/26/2024 7:26 PM	File folder	
git_intro	2/26/2024 8:09 PM	File folder	
about	2/24/2024 2:12 PM	Chrome HTML Docu...	0 KB
index	2/24/2024 2:13 PM	Chrome HTML Docu...	1 KB
resource	2/24/2024 2:13 PM	Text Document	1 KB

Task 3 :- Branch and Merge

Creating branch and checking



```
MINGW64:/c/Users/G O/Desktop/L3
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git branch New_branch

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git checkout New_branch
Switched to branch 'New_branch'
D      resource2.txt
```

Adding new file in L3 folder

```
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (New_branch)
$ touch resource3.txt
```

Checking status and committing

```
MINGW64:/c/Users/G O/Desktop/L3
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (New_branch)
$ git status
On branch New_branch
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:    resource2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        resource3.txt

no changes added to commit (use "git add" and/or "git commit -a")
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (New_branch)
$ git add resource3.txt
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (New_branch)
$ git commit -m "branch commit"
[New_branch 2b0d1ab] branch commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 resource3.txt
```


Branch push in github from git

```
Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (New_branch)
$ git push -u origin New_branch
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (7/7), 584 bytes | 584.00 KiB/s, done.
Total 7 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'New_branch' on GitHub by visiting:
remote:   https://github.com/Nikita-NC/introduction/pull/new/New_branch
remote:
To https://github.com/Nikita-NC/introduction.git
 * [new branch]      New_branch -> New_branch
branch 'New_branch' set up to track 'origin/New_branch'.

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (New_branch)
$
```

The screenshot shows the GitHub web interface for the repository 'Nikita-NC/introduction'. The 'Branches' tab is selected, displaying a list of branches. The 'master' branch is the default, and the 'New_branch' has been created and is currently ahead of master by 1 commit. A 'New branch' button is visible in the top right corner.

Branches

Overview | Yours | Active | Stale | All

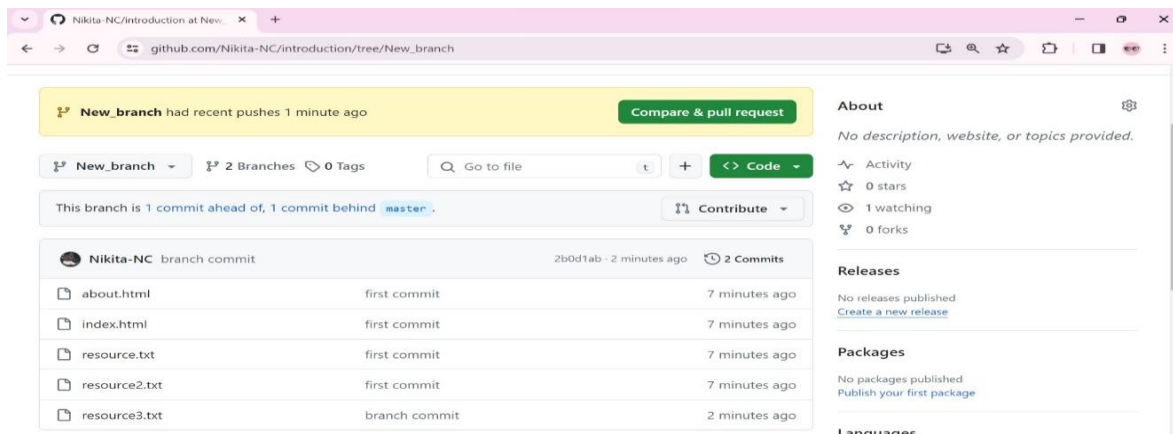
Search branches...

Default

Branch	Updated	Check status	Behind Ahead	Pull request
master	5 minutes ago		Default	

Your branches

Branch	Updated	Check status	Behind Ahead	Pull request
New_branch	1 minute ago		1 1	



Merge new branch in master branch

```
MINGW64:/c:/Users/G O/Desktop/L3

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git checkout master
Already on 'master'
D    resource2.txt
Your branch is up to date with 'origin/master'.

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git merge New_branch
Updating ddd1ed9..2b0d1ab
Fast-forward
 resource3.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 resource3.txt
```

Push after merging branch

```
MINGW64:/c:/Users/G O/Desktop/L3

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git checkout master
Already on 'master'
D    resource2.txt
Your branch is up to date with 'origin/master'.

Nikita@DESKTOP-13B8QER MINGW64 ~/Desktop/L3 (master)
$ git merge New_branch
Updating ddd1ed9..2b0d1ab
Fast-forward
 resource3.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 resource3.txt
```