# Full stack Bootcamp

**Practicing Git** 



#### shows the current Git version

```
♦ MINGW64:/e/Sprints/week_one/Practicing Git/Sprints-SWCM-Task

Windows 108DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git

§ git --version
git version 2.40.0.windows.1
```

#### showing the Git Help results

```
MINGW64:/e/Sprints/week_one/Practicing Git/Sprints-SWCM-Task
 ndows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git
 git help
           [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
[-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
sage: git
            [--config-env=<name>=<envvar>] <command> [<args>]
hese are common Git commands used in various situations:
tart a working area (see also: git help tutorial)
clone Clone a repository into a new directory
              Create an empty Git repository or reinitialize an existing one
  init
ork on the current change (see also: git help everyday)
add Add file contents to the index
             Move or rename a file, a directory, or a symlink
Restore working tree files
  mν
  restore
              Remove files from the working tree and from the index
diff
              Show changes between commits, commit and working tree, etc
              Print lines matching a pattern
  grep
  log
              Show commit logs
              Show various types of objects
Show the working tree status
  show
  status
 ow, mark and tweak your common history
              List, create, or delete branches
  branch
              Record changes to the repository
  commit
              Join two or more development histories together
  merae
              Reapply commits on top of another base tip
  rebase
              Reset current HEAD to the specified state
  reset
              Switch branches
  switch
              Create, list, delete or verify a tag object signed with GPG
  tag
ollaborate (see also: git help workflows)
              Download objects and refs from another repository
Fetch from and integrate with another repository or a local branch
  pull
  push
              Update remote refs along with associated objects
git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>
o read about a specific subcommand or concept.
ee 'git help git' for an overview of the system.
```

#### showing the configured user name and email showing

```
MINGW64:/e/Sprints/week_one/Practicing Git/Sprints-SWCM-Task

Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git

$ git config --global user.name "ABDALLA ALSAEED"

Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git

$ git config --global user.email "sabdalla546@gmail.com"
```

#### showing the cloning command result

```
MINGW64:/e/Sprints/week_one/Practicing Git/Sprints-SWCM-Task

Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git

$ git clone https://github.com/sabdalla546/Sprints-SWCM-Task.git
Cloning into 'Sprints-SWCM-Task'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

### showing the commit history

```
Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git/Sprints-SW

CM-Task (main)

git log

commit 70ae545fe771361f1dad712bc4984d8d7eacdf54 (HEAD -> main)

Author: ABDALLA ALSAEED <sabdalla546@gmail.com>

Date: Fri May 5 03:22:41 2023 +0300

first commit in main

commit 87fffcac317eea3f80498741a2246316e175dfde (origin/main, origin/HEAD)

Author: sabdalla546 <64744897+sabdalla546@users.noreply.github.com>

Date: Fri May 5 03:17:56 2023 +0300

Initial commit
```

#### shows the push command results

```
Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git/Sprints-SW

CM-Task (main)

$ git push origin main
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), 303 bytes | 303.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/sabdalla546/Sprints-SWCM-Task.git

87fffca..70ae545 main -> main
```

#### shows the commit history for two branches

```
commit 85477e6097d4a8c1302d0850470dd9b1f8a6316b (featureY)
Author: ABDALLA AL5AEED <sabdalla546@gmail.com>
Date: Fri May 5 03:46:16 2023 +0300

    first commit feature Y

commit 33cf52576d127958a66b28b5143a394c1be454ab
Author: ABDALLA AL5AEED <sabdalla546@gmail.com>
Date: Fri May 5 03:41:25 2023 +0300

    first commit in feature X

commit 70ae545fe771361f1dad712bc4984d8d7eacdf54 (origin/main, origin/HEAD)
Author: ABDALLA AL5AEED <sabdalla546@gmail.com>
Date: Fri May 5 03:22:41 2023 +0300

    first commit in main

commit 87fffcac317eea3f80498741a2246316e175dfde
Author: sabdalla546 <64744897+sabdalla546@users.noreply.github.com>
Date: Fri May 5 03:17:56 2023 +0300

    Initial commit
```

#### merging the featureX branch

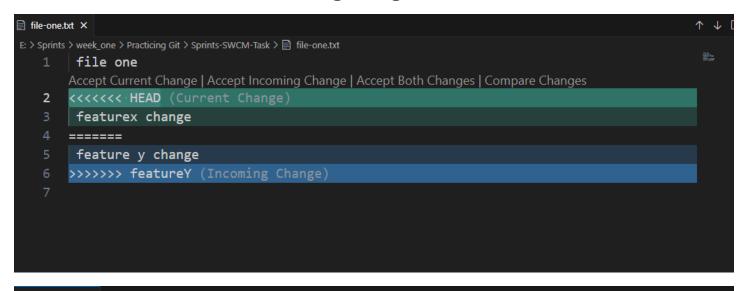
```
Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git/Sprints-SWCM-Task (main)
$ git merge featureX
Updating 70ae545..33cf525
Fast-forward
file-one.txt | 1 +
1 file changed, 1 insertion(+)
```

#### merging the featureY branch

```
Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git/Sprints-SWCM-Tas
k (main)
$ git merge featureY
Auto-merging file-one.txt
CONFLICT (content): Merge conflict in file-one.txt
Automatic merge failed; fix conflicts and then commit the result.

Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git/Sprints-SWCM-Tas
k (main|MERGING)
$
```

## resolving merge conflict



#### showing the commit history

```
MINGW64:/e/Sprints/week_one/Practicing Git/Sprints-SWCM-Task
Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git/Sprints-SWCM-Task (main)
$ git merge featureY
Already up to date.
Windows 10@DESKTOP-37HKSLE MINGW64 /e/Sprints/week_one/Practicing Git/Sprints-SWCM-Task (main)
 commit 53ee8a0ac82d34fc6b934430e418da9f9c711986 (HEAD -> main)
Merge: 33cf525 85477e6
Author: ABDALLA ALSAEED <sabdalla546@gmail.com>
Date: Fri May 5 04:15:17 2023 +0300
    conflict solved
   mit 85477e6097d4a8c1302d0850470dd9b1f8a6316b (featureY)
Author: ABDALLA ALSAEED <sabdalla546@gmail.com>
Date: Fri May 5 03:46:16 2023 +0300
    first commit feature Y
commit 33cf52576d127958a66b28b5143a394c1be454ab
Author: ABDALLA ALSAEED <sabdalla546@gmail.com>
Date: Fri May 5 03:41:25 2023 +0300
    first commit in feature X
    nit 70ae545fe771361f1dad712bc4984d8d7eacdf54 (origin/main, origin/HEAD)
Author: ABDALLA ALSAEED <sabdalla546@gmail.com>
Date: Fri May 5 03:22:41 2023 +0300
    first commit in main
commit 87fffcac317eea3f80498741a2246316e175dfde
Author: sabdalla546 <64744897+sabdalla546@users.noreply.github.com>
Date: Fri May 5 03:17:56 2023 +0300
    Initial commit
```