Cognizance Club

Task-1

By

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1) git clone

```
MINGW64:/c/Users/HP/Task-1                                    —    □    ✕

HP@moodman78 MINGW64 ~
$ git clone https://github.com/hardy07/Task-1.git
Cloning into 'Task-1'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.
```

2) git status

```
MINGW64:/c/Users/HP/Task-1                                    —    □    ✕

HP@moodman78 MINGW64 ~/Task-1 (main)
$ ls
README.md

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

3) git add

```
HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git add Pong.java

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Pong.java
```

4) git commit

```
HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Pong.java
        new file:   Renderer.java


HP@moodman78 MINGW64 ~/Task-1 (main)
$ git commit -m "this is first commit"
[main 3cbc920] this is first commit
 2 files changed, 269 insertions(+)
 create mode 100644 Pong.java
 create mode 100644 Renderer.java

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git log
commit 3cbc920b04f0e34b8a8908a46ad06c616d257979 (HEAD -> main)
Author: hardy07 <coppersakthi@gmail.com>
Date:   Mon Feb 14 13:51:26 2022 +0530

    this is first commit

commit 9cd68d031d966c1f984f6d5ea27d8cad31f9403b (origin/main, origin/HEAD)
Author: hardy07 <63062063+hardy07@users.noreply.github.com>
Date:   Mon Feb 14 12:17:59 2022 +0530

    Update README.md

commit be9f5fdcbd1e6d109d429e2bd0a8a81fa998bb25
Author: hardy07 <63062063+hardy07@users.noreply.github.com>
Date:   Mon Feb 14 12:11:21 2022 +0530

    Initial commit
```

5) git push

```
HP@moodman78 MINGW64 ~/Task-1 (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 2.11 KiB | 89.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/hardy07/Task-1.git
   9cd68d0..3cbc920  main -> main
```

	hardy07 this is first commit		3cbc920 10 minutes ago 3 commits
🗋	Pong.java	this is first commit	10 minutes ago
🗋	README.md	Update README.md	2 hours ago
🗋	Renderer.java	this is first commit	10 minutes ago

6) git checkout

```
MINGW64:/c/Users/HP/Task-1

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Paddle.java

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git log
commit 3cbc920b04f0e34b8a8908a46ad06c616d257979 (HEAD -> main, origin/main, origin/HEAD)
Author: hardy07 <coppersakthi@gmail.com>
Date:   Mon Feb 14 13:51:26 2022 +0530

    this is first commit

commit 9cd68d031d966c1f984f6d5ea27d8cad31f9403b
Author: hardy07 <63062063+hardy07@users.noreply.github.com>
Date:   Mon Feb 14 12:17:59 2022 +0530

    Update README.md

commit be9f5fdcbd1e6d109d429e2bd0a8a81fa998bb25
Author: hardy07 <63062063+hardy07@users.noreply.github.com>
Date:   Mon Feb 14 12:11:21 2022 +0530

    Initial commit
```

```
HP@moodman78 MINGW64 ~/Task-1 (main)
$ ls
Paddle.java  Pong.java  README.md  Renderer.java

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git checkout be9f5fdcbd1e6d109d429e2bd0a8a81fa998bb25
Note: switching to 'be9f5fdcbd1e6d109d429e2bd0a8a81fa998bb25'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

  git switch -c <new-branch-name>

Or undo this operation with:

  git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at be9f5fd Initial commit
A       Paddle.java

HP@moodman78 MINGW64 ~/Task-1 ((be9f5fd...))
$ ls
Paddle.java  README.md

HP@moodman78 MINGW64 ~/Task-1 ((be9f5fd...))
$ git log
commit be9f5fdcbd1e6d109d429e2bd0a8a81fa998bb25 (HEAD)
Author: hardy07 <63062063+hardy07@users.noreply.github.com>
Date:   Mon Feb 14 12:11:21 2022 +0530

    Initial commit
```

7) git checkout -b

```
HP@moodman78 MINGW64 ~/Task-1 ((3cbc920...))
$ git checkout -b new-branch
Switched to a new branch 'new-branch'

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git branch
  main
* new-branch

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ touch app.py

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ ls
Paddle.java  Pong.java  README.md  Renderer.java  app.py

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git add .

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git commit -m 'added a py file'
[new-branch 0ec6fc8] added a py file
 2 files changed, 43 insertions(+)
 create mode 100644 Paddle.java
 create mode 100644 app.py

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ ls
Paddle.java  Pong.java  README.md  Renderer.java  app.py
```

```
HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git log
commit 0ec6fc847ddbc315d50c9280d2d6b1e34adb5461 (HEAD -> new-branch)
Author: hardy07 <coppersakthi@gmail.com>
Date:   Tue Feb 15 17:29:33 2022 +0530

    added a py file

commit 3cbc920b04f0e34b8a8908a46ad06c616d257979 (origin/main, origin/HEAD, main)
Author: hardy07 <coppersakthi@gmail.com>
Date:   Mon Feb 14 13:51:26 2022 +0530

    this is first commit

commit 9cd68d031d966c1f984f6d5ea27d8cad31f9403b
Author: hardy07 <63062063+hardy07@users.noreply.github.com>
Date:   Mon Feb 14 12:17:59 2022 +0530

    Update README.md

commit be9f5fdcbd1e6d109d429e2bd0a8a81fa998bb25
Author: hardy07 <63062063+hardy07@users.noreply.github.com>
Date:   Mon Feb 14 12:11:21 2022 +0530

    Initial commit
```

```
HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

HP@moodman78 MINGW64 ~/Task-1 (main)
$ ls
Pong.java  README.md  Renderer.java

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git checkout new-branch
Switched to branch 'new-branch'

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ ls
Paddle.java  Pong.java  README.md  Renderer.java  app.py
```

8) git fetch, git pull, git rebase

```
MINGW64:/c/Users/HP/Task-1

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   index.html
        new file:   new.css


HP@moodman78 MINGW64 ~/Task-1 (main)
$ git fetch --all
Fetching origin

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git pull origin main
From https://github.com/hardy07/Task-1
 * branch            main         -> FETCH_HEAD
Already up to date.
```

```
HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git rebase main
Current branch new-branch is up to date.

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git rebase new-branch
Successfully rebased and updated refs/heads/main.
```

9) git init

```
MINGW64:/c/Users/HP

HP@moodman78 MINGW64 ~
$ git init project1
Initialized empty Git repository in C:/Users/HP/project1/.git/
```

10) Git reset

```
MINGW64:/c/Users/HP/Task-1

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
'On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

HP@moodman78 MINGW64 ~/Task-1 (main)
$ ls
Paddle.java  Pong.java  README.md  Renderer.java  app.py  index.html  new.css

HP@moodman78 MINGW64 ~/Task-1 (main)
$ touch code.css

HP@moodman78 MINGW64 ~/Task-1 (main)
$ ls
Paddle.java  Pong.java  README.md  Renderer.java  app.py  code.css  index.html  new.css

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git add .

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   code.css


HP@moodman78 MINGW64 ~/Task-1 (main)
$ git reset

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

11)   git push origin

```
HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git branch
  main
* new-branch

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git push origin new-branch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 716 bytes | 37.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'new-branch' on GitHub by visiting:
remote:      https://github.com/hardy07/Task-1/pull/new/new-branch
remote:
To https://github.com/hardy07/Task-1.git
 * [new branch]      new-branch -> new-branch
```

12)   git merge

```
HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ ls
Paddle.java  Pong.java  README.md  Renderer.java  app.py  index.html  new.css

HP@moodman78 MINGW64 ~/Task-1 (new-branch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

HP@moodman78 MINGW64 ~/Task-1 (main)
$ ls
Pong.java  README.md  Renderer.java  index.html  new.css

HP@moodman78 MINGW64 ~/Task-1 (main)
$ git merge new-branch
Updating 3cbc920..0ec6fc8
Fast-forward
 Paddle.java | 43 +++++++++++++++++++++++++++++++++++++++++++
 app.py      |  0
 2 files changed, 43 insertions(+)
 create mode 100644 Paddle.java
 create mode 100644 app.py

HP@moodman78 MINGW64 ~/Task-1 (main)
$ ls
Paddle.java  Pong.java  README.md  Renderer.java  app.py  index.html  new.css
```

13) git config --list --show-origin

14) forking