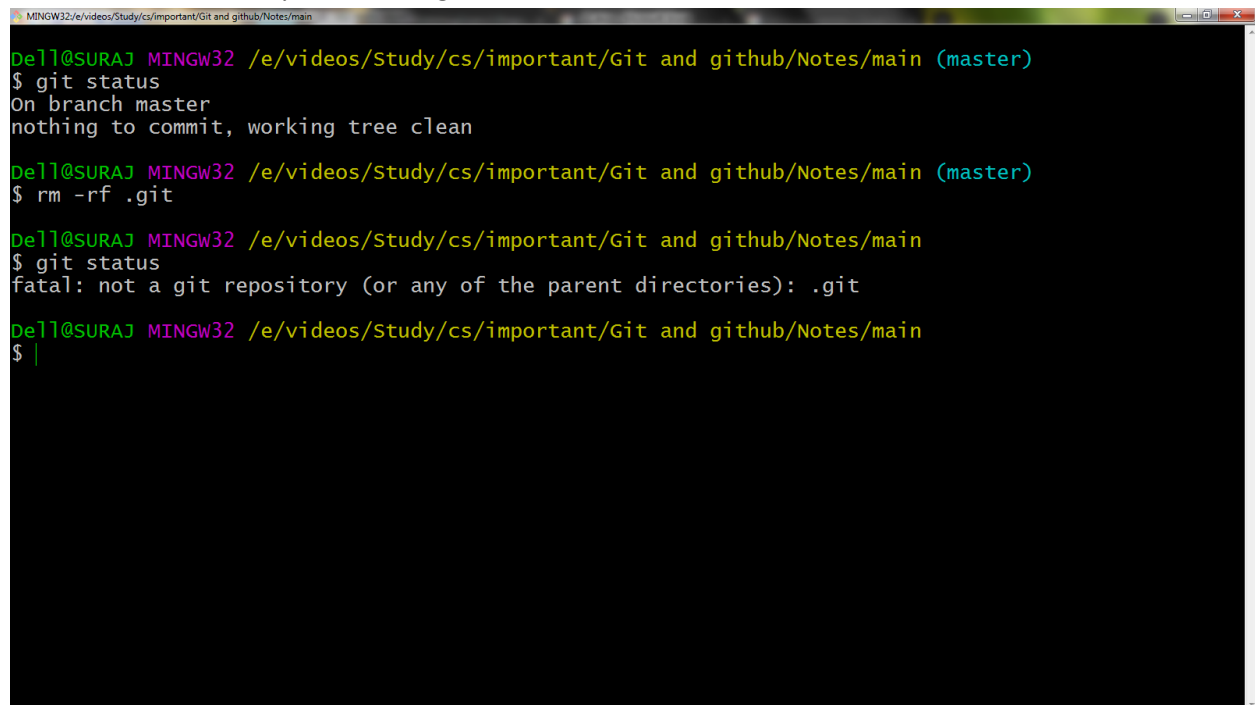


Delete current directory → “rm -rf .git”

A terminal window with a black background and green text. The window title is 'MINGW32/e/videos/Study/cs/important/Git and github/Notes/main'. The user 'De11@SURAJ' is in the 'MINGW32' shell. The prompt is '/e/videos/Study/cs/important/Git and github/Notes/main (master)'. The user enters '\$ git status', and the output is 'On branch master' and 'nothing to commit, working tree clean'. Then the user enters '\$ rm -rf .git'. The prompt changes to '/e/videos/Study/cs/important/Git and github/Notes/main'. The user enters '\$ git status', and the output is 'fatal: not a git repository (or any of the parent directories): .git'. Finally, the user enters '\$ |' and the prompt changes to '\$ |'.

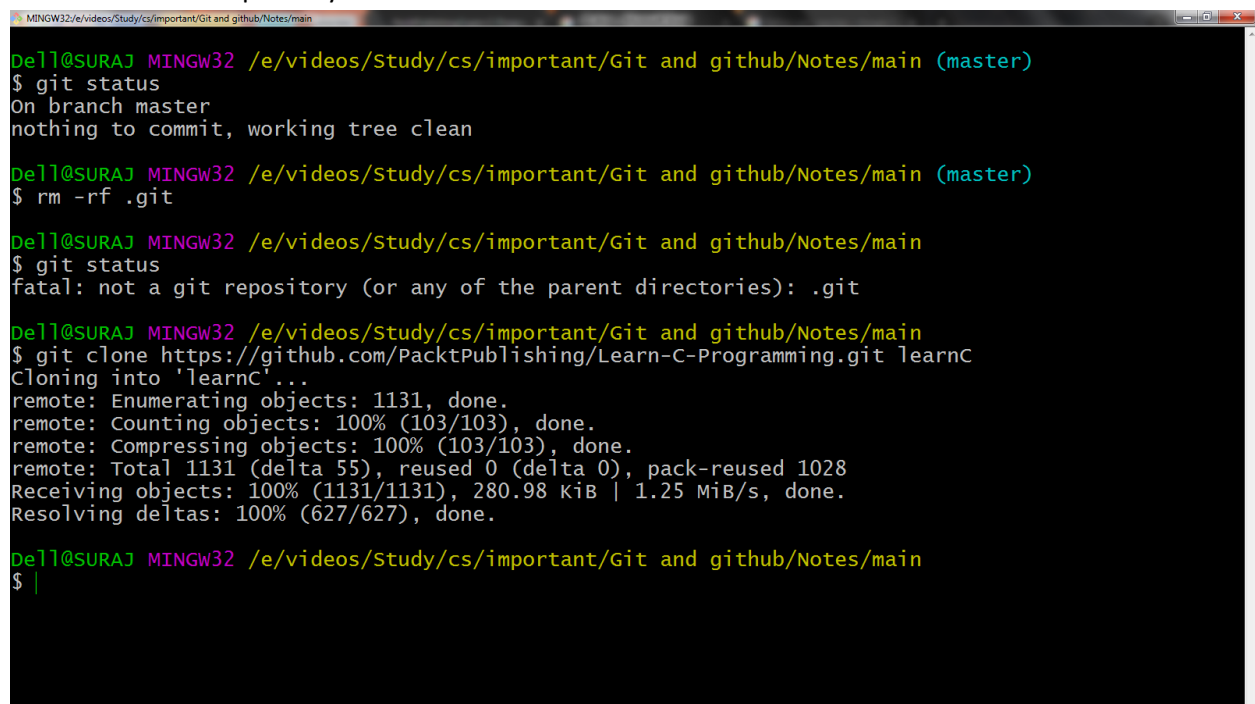
```
De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
nothing to commit, working tree clean

De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ rm -rf .git

De11@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

De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main
$ |
```

Now clone a new repository

A terminal window with a black background and green text. The window title is 'MINGW32/e/videos/Study/cs/important/Git and github/Notes/main'. The user 'De11@SURAJ' is in the 'MINGW32' shell. The prompt is '/e/videos/Study/cs/important/Git and github/Notes/main (master)'. The user enters '\$ git status', and the output is 'On branch master' and 'nothing to commit, working tree clean'. Then the user enters '\$ rm -rf .git'. The prompt changes to '/e/videos/Study/cs/important/Git and github/Notes/main'. The user enters '\$ git status', and the output is 'fatal: not a git repository (or any of the parent directories): .git'. Then the user enters '\$ git clone https://github.com/PacktPublishing/Learn-C-Programming.git learnC'. The output is 'Cloning into 'learnC'...' followed by progress bars for 'remote: Enumerating objects: 1131, done.', 'remote: Counting objects: 100% (103/103), done.', 'remote: Compressing objects: 100% (103/103), done.', 'remote: Total 1131 (delta 55), reused 0 (delta 0), pack-reused 1028', 'Receiving objects: 100% (1131/1131), 280.98 KiB | 1.25 MiB/s, done.', and 'Resolving deltas: 100% (627/627), done.'. Finally, the user enters '\$ |' and the prompt changes to '\$ |'.

```
De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
nothing to commit, working tree clean

De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ rm -rf .git

De11@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

De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main
$ git clone https://github.com/PacktPublishing/Learn-C-Programming.git learnC
Cloning into 'learnC'...
remote: Enumerating objects: 1131, done.
remote: Counting objects: 100% (103/103), done.
remote: Compressing objects: 100% (103/103), done.
remote: Total 1131 (delta 55), reused 0 (delta 0), pack-reused 1028
Receiving objects: 100% (1131/1131), 280.98 KiB | 1.25 MiB/s, done.
Resolving deltas: 100% (627/627), done.

De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main
$ |
```

“git clone //address// folderName” → clone file in folderName, while giving folderName is not necessary

Since we cleared our git repository and bring new git repository in new folder it will create git repository  
In that newly created folder not in current folder

So go to that folder

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main/learnC
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)
$ rm -rf .git

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 clone https://github.com/PacktPublishing/Learn-C-Programming.git learnC
Cloning into 'learnC'...
remote: Enumerating objects: 1131, done.
remote: Counting objects: 100% (103/103), done.
remote: Compressing objects: 100% (103/103), done.
remote: Total 1131 (delta 55), reused 0 (delta 0), pack-reused 1028
Receiving objects: 100% (1131/1131), 280.98 KiB | 1.25 MiB/s, done.
Resolving deltas: 100% (627/627), done.

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

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

cd folderName/

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

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 clone https://github.com/PacktPublishing/Learn-C-Programming.git learnC
Cloning into 'learnC'...
remote: Enumerating objects: 1131, done.
remote: Counting objects: 100% (103/103), done.
remote: Compressing objects: 100% (103/103), done.
remote: Total 1131 (delta 55), reused 0 (delta 0), pack-reused 1028
Receiving objects: 100% (1131/1131), 280.98 KiB | 1.25 MiB/s, done.
Resolving deltas: 100% (627/627), done.

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

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

Run “git log” to see all commits

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main/learnC
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git log
commit 7ece4d4c8a3ca26aae99928aa09b6a49a83fd412 (HEAD -> master, origin/master, origin/HEAD)
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>
Date: Mon Mar 8 12:59:44 2021 +0530

    Update README.md

commit 3bcce5af7b0d76ab382a7569e34179c409d8f683
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Date: Fri Jan 15 08:56:31 2021 +0000

    remove $5 campaign

commit bfd4bb257a307a630bcb24cba91ba6143fad7fdd
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Date: Tue Dec 15 00:13:39 2020 +0000

    add $5 campaign

commit 4b91a16409b1e3623c15452213654e9395a41937
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Date: Mon Dec 14 17:59:31 2020 +0000

    add $5 campaign
```

press ‘q’ to exit from it

How to see the difference in files in each commit → “git log -p”

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git log -p
commit 7ece4d4c8a3ca26aae99928aa09b6a49a83fd412 (HEAD -> master, origin/master, origin/HEAD)
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>
Date: Mon Mar 8 12:59:44 2021 +0530

    Update README.md

diff --git a/README.md b/README.md
index 03e91ad..03c5ff0 100644
--- a/README.md
+++ b/README.md
@@ -111,6 +111,21 @@ It could also have been declared
     #define size3D 3
     #define size4D 7
...

+* Page 192: The code block after "Alternatively, we could write a function that adds two cards, a
+ s follows:" is:
+...
+int sumCards( struct Card c1 , struct Card c2 ) {
+  int faceValue = c1.faceFalue + c2.faceValue;
+  return faceValue;
+}
+...
+It should be:
+...
+int sumCards( struct Card c1 , struct Card c2 ) {
+  int faceValue = c1.faceValue + c2.faceValue;
+  return faceValue;
+}
```

If we type → “git log -p -3” → it will show only 3 commits, we can place any number in place of 3

To see short summary of all commits → “git log --stat”

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main/learnC
+ return facevalue;
+}
+}
+}

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git log --stat
commit 7ece4d4c8a3ca26aae99928aa09b6a49a83fd412 (HEAD -> master, origin/master, origin/HEAD)
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>
Date: Mon Mar 8 12:59:44 2021 +0530

    Update README.md

 README.md | 15 ++++++
 1 file changed, 15 insertions(+)

commit 3bcce5af7b0d76ab382a7569e34179c409d8f683
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Date: Fri Jan 15 08:56:31 2021 +0000

    remove $5 campaign

 README.md | 5 -----
 1 file changed, 5 deletions(-)

commit bfd4bb257a307a630bcb24cba91ba6143fad7fdd
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Date: Tue Dec 15 00:13:39 2020 +0000

    add $5 campaign
```

To see all commits in 1 line → “git log --pretty=oneline”

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git log --pretty=oneline
7ece4d4c8a3ca26aae99928aa09b6a49a83fd412 (HEAD -> master, origin/master, origin/HEAD) Update README
E.md
3bcce5af7b0d76ab382a7569e34179c409d8f683 remove $5 campaign
bfd4bb257a307a630bcb24cba91ba6143fad7fdd add $5 campaign
4b91a16409b1e3623c15452213654e9395a41937 add $5 campaign
fa3daa905cf65a1d1749743811afb3c52ee75a7 Update README.md
7c9c3f46e27587f830386fb6db382f969b5c5825 added erratas
1a4e8cb3be5c5d33be3175031f9249a12a74d351 Update README.md
5f757b9a0523e12ea60c6de91be285cc61ac4233 fix column border
8082ecbaf420e53f27c0afdb03678ad82d7e16e2 Fixed column borders
0eaac55e464264030647ea4bc6e93f13d338b353 Update README.md
fdd8b9dd1bb2e8d52ede2cd825c4f46c35271244 Update README.md
af600941a44a7af5d13edbf77459810e0176cb57 Update README.md
74d24aa1ea42b3ef12de1a6f65fcd46e0130a16a Update README.md
925561bc2530b038ddc9fc3d9260941c36a319ce Update README.md
a91d01d52f167d39fc7649bfb917f1e76aeb61c4 edit
78d1c451591e4080943f6fcc8d5dbe497f26ceea update tombstone
52be251ea1c422c9e4e4fd3d8ba62ea05e7d8424 update tombstone
9a1c2a9732df2181dcfa9380f195cb0fd93bed0 use enum kCardsInSuit
bf09b599503d177003e72d524f4ae68230b05823 update tombstone
d46c0aeaa340af19c5313c31e53db4906ed76505 update tombstone
759ae7052876d1ced39d57bfaa9bc61282a729ce update tombstone
c19256e8a74ce68b27b47a6b0eefe83388c2938a update tombstone
247aa1c8551c43916d4088f71a686310728e50d8 update tombstone
6be70194c76a296a6835c591b8a694f12337a26f update tombstone
5c13844389fc42d0df8587584164a9bf20439b56 update tombstone
3f07b5be551321d24730ca3e536ede7c649eb569 update tombstone
```

To see all commits in short → “git log --pretty=short”

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main/learnC
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git log --pretty=short
commit 7ece4d4c8a3ca26aae99928aa09b6a49a83fd412 (HEAD -> master, origin/master, origin/HEAD)
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>

    Update README.md

commit 3bcce5af7b0d76ab382a7569e34179c409d8f683
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    remove $5 campaign

commit bfd4bb257a307a630bcb24cba91ba6143fad7fdd
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    add $5 campaign

commit 4b91a16409b1e3623c15452213654e9395a41937
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    add $5 campaign

commit fa3daa905cf65a1d1749743811afbd3c52ee75a7
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>

    Update README.md

commit 7c9c3f46e27587f830386fb6db382f969b5c5825
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>

    added erratas
```

To see more information → “git log --pretty=full”

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main/learnC
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git log --pretty=full
commit 7ece4d4c8a3ca26aae99928aa09b6a49a83fd412 (HEAD -> master, origin/master, origin/HEAD)
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>
Commit: GitHub <noreply@github.com>

    Update README.md

commit 3bcce5af7b0d76ab382a7569e34179c409d8f683
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Commit: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    remove $5 campaign

commit bfd4bb257a307a630bcb24cba91ba6143fad7fdd
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Commit: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    add $5 campaign

commit 4b91a16409b1e3623c15452213654e9395a41937
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Commit: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    add $5 campaign

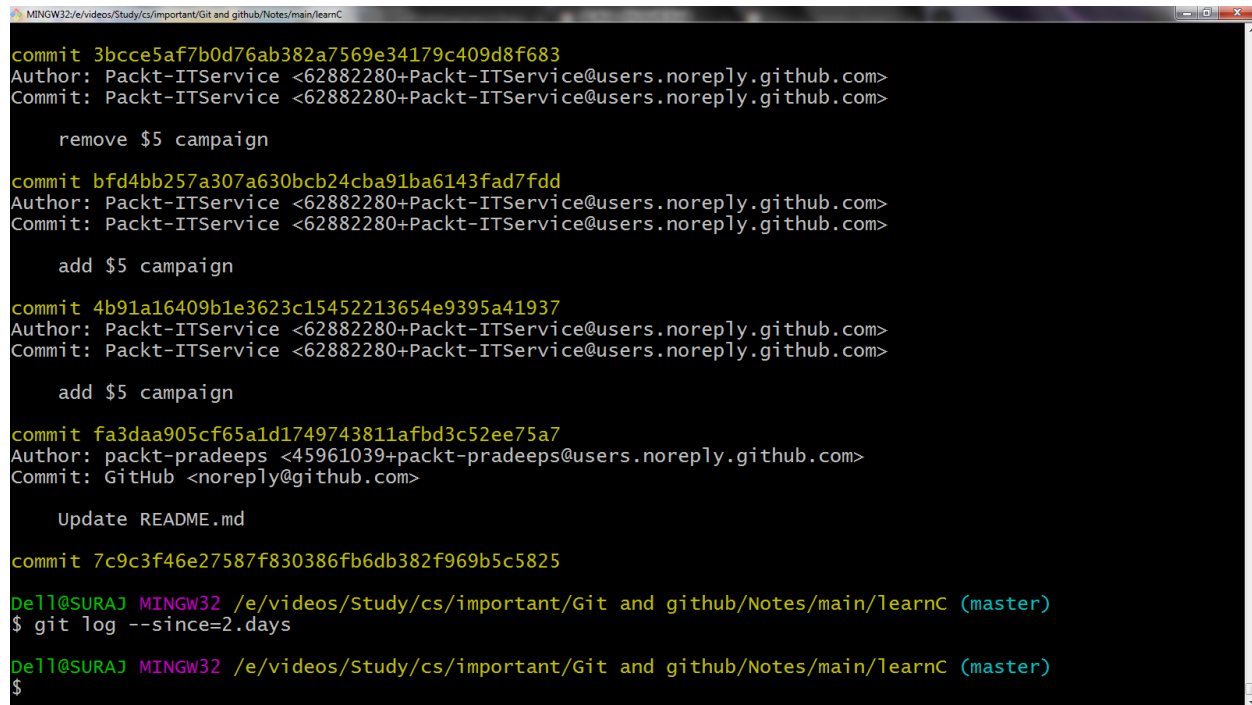
commit fa3daa905cf65a1d1749743811afbd3c52ee75a7
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>
Commit: GitHub <noreply@github.com>

    Update README.md
```

Author → Who created the file

Commit → Who committed the file after changing

To see all commits all for last n(= 2, for this case) days → “git log --since=2.days”



```
commit 3bcce5af7b0d76ab382a7569e34179c409d8f683
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Commit: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    remove $5 campaign

commit bfd4bb257a307a630bcb24cba91ba6143fad7fdd
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Commit: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    add $5 campaign

commit 4b91a16409b1e3623c15452213654e9395a41937
Author: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>
Commit: Packt-ITService <62882280+Packt-ITService@users.noreply.github.com>

    add $5 campaign

commit fa3daa905cf65a1d1749743811afbd3c52ee75a7
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>
Commit: GitHub <noreply@github.com>

    Update README.md

commit 7c9c3f46e27587f830386fb6db382f969b5c5825

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git log --since=2.days

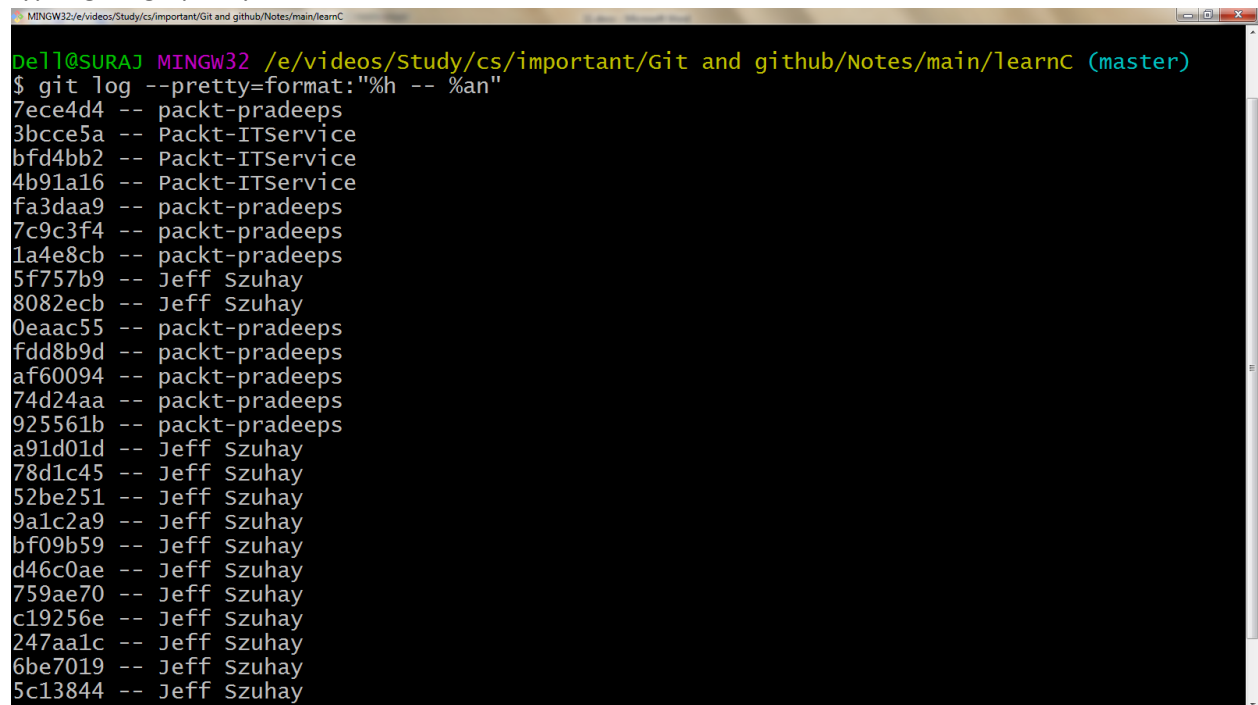
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$
```

nothing is shown because there is not commit in last 2 days

- Similarly we use:
1. “git log --since=2.months”
  2. “git log --since=2.weeks”
  3. “git log --since=2.years”

Uses of placeholders in git (see website <https://git-scm.com/docs/git-log>)

Type "git log --pretty=format:"%h -- %an""

A screenshot of a Windows command prompt window titled 'MINGW32/e:/videos/Study/cs/important/Git and github/Notes/main/learnC'. The prompt shows the user 'Dell@SURAJ' in the 'MINGW32' environment. The command executed is 'git log --pretty=format:"%h -- %an"'. The output lists 25 git commits, each with a hash and an author name. The authors are 'packt-pradeeps' (14 commits) and 'Jeff Szuhay' (11 commits).

```
Dell@SURAJ MINGW32 /e:/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git log --pretty=format:"%h -- %an"
7ece4d4 -- packt-pradeeps
3bcce5a -- Packt-ITService
bfd4bb2 -- Packt-ITService
4b91a16 -- Packt-ITService
fa3daa9 -- packt-pradeeps
7c9c3f4 -- packt-pradeeps
1a4e8cb -- packt-pradeeps
5f757b9 -- Jeff Szuhay
8082ecb -- Jeff Szuhay
0eaac55 -- packt-pradeeps
fdd8b9d -- packt-pradeeps
af60094 -- packt-pradeeps
74d24aa -- packt-pradeeps
925561b -- packt-pradeeps
a91d01d -- Jeff Szuhay
78d1c45 -- Jeff Szuhay
52be251 -- Jeff Szuhay
9a1c2a9 -- Jeff Szuhay
bf09b59 -- Jeff Szuhay
d46c0ae -- Jeff Szuhay
759ae70 -- Jeff Szuhay
c19256e -- Jeff Szuhay
247aa1c -- Jeff Szuhay
6be7019 -- Jeff Szuhay
5c13844 -- Jeff Szuhay
```

where %h → abbreviated hash commit & %an → author name.

If we use %ae in place of %an it gives author email

Or we can use any format specifier

Type → "git commit --amend" and this will give

this is a vim editor (if editing is not starting type 'i' to start editing) then change message if required

To type in bottom (where --INSERT-- is given) → press “Esc” button



And then type “:wq” to exit

```

MINGW32/e/videos/Study/cs/important/Git and github/Notes/main/learnC
enable [-a] [-dnps] [-f filename] [name ...> times
eval [arg ...] trap [-lp] [[arg] signal_spec ...]
exec [-cl] [-a name] [command [arguments ...> true
exit [n] type [-afptP] name [name ...]
export [-fn] [name[=value] ...] or export -> typeset [-aAfFgIlNrTux] [-p] name[=value] >
false ulimit [-ShabcdefiklmnpqrstuvxPT] [limit]
fc [-e ename] [-lnr] [first] [last] or fc -> umask [-p] [-S] [mode]
fg [job_spec] unalias [-a] name [name ...]
for NAME [in WORDS ... ] ; do COMMANDS; don> unset [-f] [-v] [-n] [name ...]
for (( exp1; exp2; exp3 )); do COMMANDS; do> until COMMANDS; do COMMANDS; done
function name { COMMANDS; } or name () { C> variables - Names and meanings of some she>
getopts optstring name [arg] wait [-n] [id ...]
hash [-lr] [-p pathname] [-dt] [name ...] while COMMANDS; do COMMANDS; done
help [-dms] [pattern ...] { COMMANDS ; }

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git commit amend
error: pathspec 'amend' did not match any file(s) known to git

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main/learnC (master)
$ git commit --amend
[master a90e369] this is sky + Update README.md
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>
Date: Mon Mar 8 12:59:44 2021 +0530
1 file changed, 15 insertions(+)

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

```

Now check if commit is changed (checking is only for beginners) → type “git log -p -1”

```

MINGW32/~/Videos/Study/cs/important/Git and github/Notes/main/learnC
commit a90e3696fbbd806bd55b9bebeb0f2d0e86bc9364 (HEAD -> master)
Author: packt-pradeeps <45961039+packt-pradeeps@users.noreply.github.com>
Date: Mon Mar 8 12:59:44 2021 +0530

    this is sky + Update README.md

diff --git a/README.md b/README.md
index 03e91ad..03c5ff0 100644
--- a/README.md
+++ b/README.md
@@ -111,6 +111,21 @@ It could also have been declared
     #define size3D 3
     #define size4D 7
...

+* Page 192: The code block after "Alternatively, we could write a function that adds two cards, as follows:" is:
+
+int sumCards( struct Card c1 , struct Card c2 ) {
+    int faceValue = c1.faceValue + c2.faceValue;
+    return faceValue;
+}
+
+It should be:
+
+int sumCards( struct Card c1 , struct Card c2 ) {
+    int faceValue = c1.faceValue + c2.faceValue;
+    return faceValue;
+}
+
+

```

it also shows the changes done in a particular file