GIT INIT:


```
MINGW64:/c/Users/ragul/cognizance

ragul@RagulMuthusami MINGW64 ~
$ pwd
/c/Users/ragul

ragul@RagulMuthusami MINGW64 ~
$ mkdir cognizance
mkdir: cannot create directory 'cognizance': File exists

ragul@RagulMuthusami MINGW64 ~
$ ls
'3D Objects'/            'My Documents'@                                                                      'Saved Games'/
 AppData/                 NTUSER.DAT                                                                           Searches/
'Application Data'@       NTUSER.DAT{1c2b59c5-c5f5-11eb-bacb-000d3a96488e}.TxR.0.regtrans-ms                  SendTo@
 Contacts/                NTUSER.DAT{1c2b59c5-c5f5-11eb-bacb-000d3a96488e}.TxR.1.regtrans-ms                  'Start Menu'@
 Cookies@                 NTUSER.DAT{1c2b59c5-c5f5-11eb-bacb-000d3a96488e}.TxR.2.regtrans-ms                  Templates@
 Documents/               NTUSER.DAT{1c2b59c5-c5f5-11eb-bacb-000d3a96488e}.TxR.blf                            Videos/
 Downloads/               NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TM.blf                             'VirtualBox VMs'/
 Dropbox/                 NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TMContainer00000000000000000001.regtrans-ms    cognizance/
 Favorites/               NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TMContainer00000000000000000002.regtrans-ms    ntuser.dat.LOG1
 IntelGraphicsProfiles/   NetHood@                                                                            ntuser.dat.LOG2
 Links/                   OneDrive/                                                                           ntuser.ini
'Local Settings'@         PrintHood@
 Music/                   Recent@

ragul@RagulMuthusami MINGW64 ~
$ cd cognizance

ragul@RagulMuthusami MINGW64 ~/cognizance
$ git init
Initialized empty Git repository in C:/Users/ragul/cognizance/.git/

ragul@RagulMuthusami MINGW64 ~/cognizance (master)
$
```

ADD:


```
ragul@RagulMuthusami MINGW64 ~/cognizance (master)
$ touch test.txt

ragul@RagulMuthusami MINGW64 ~/cognizance (master)
$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
        add

ragul@RagulMuthusami MINGW64 ~/cognizance (master)
$ git add .

ragul@RagulMuthusami MINGW64 ~/cognizance (master)
$
```

GIT STATUS AND USERNAME AND USER EMAIL CONFIGURE:

CONNECTING LOCAL REPOSITORY TO REMOTE REPOSITORY:

CHECKOUT:

```
ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git log --oneline
0b7060f (HEAD -> main, origin/main) first commit
6295112 this is a text file

ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git checkout 6295112
Note: switching to '6295112'.

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 6295112 this is a text file

ragul@RagulMuthusami MINGW64 ~/cognizance ((6295112...))
$
```

CHECKOUT B:

COMMIT A:

MERGE:

```
ragul@RagulMuthusami MINGW64 ~/cognizance ((6295112...))
$ git checkout -b f1
Switched to a new branch 'f1'

ragul@RagulMuthusami MINGW64 ~/cognizance (f1)
$ touch test2.txt

ragul@RagulMuthusami MINGW64 ~/cognizance (f1)
$ git add .

ragul@RagulMuthusami MINGW64 ~/cognizance (f1)
$ git commit -a
[f1 8a366bd] this is a test2 file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test2.txt

ragul@RagulMuthusami MINGW64 ~/cognizance (f1)
$ git branch -a
* f1
  main
  remotes/origin/main

ragul@RagulMuthusami MINGW64 ~/cognizance (f1)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git merge f1
Merge made by the 'ort' strategy.
 test2.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test2.txt

ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ A
```

PUSH:

```
ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 526 bytes | 526.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ragulmuthusami/cognizance.git
   0b7060f..7ca32ae  main -> main

ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$
```

PULL:

```
ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git pull
Already up to date.

ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ |
```

GIT CONFIG –LIST –SHOW-ORIGIN:

MINGW64:/c/Users/ragul/cognizance

```
ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git config --list --show-origin
error: unknown non-ascii option in string: `--show-origin'
usage: git config [<options>]

Config file location
    --global              use global config file
    --system              use system config file
    --local               use repository config file
    --worktree            use per-worktree config file
    -f, --file <file>     use given config file
    --blob <blob-id>      read config from given blob object

Action
    --get                 get value: name [value-pattern]
    --get-all             get all values: key [value-pattern]
    --get-regexp          get values for regexp: name-regex [value-pattern]
    --get-urlmatch        get value specific for the URL: section[.var] URL
    --replace-all         replace all matching variables: name value [value-pattern]
    --add                 add a new variable: name value
    --unset               remove a variable: name [value-pattern]
    --unset-all           remove all matches: name [value-pattern]
    --rename-section      rename section: old-name new-name
    --remove-section      remove a section: name
    -l, --list            list all
    --fixed-value         use string equality when comparing values to 'value-pattern'
    -e, --edit            open an editor
    --get-color           find the color configured: slot [default]
    --get-colorbool       find the color setting: slot [stdout-is-tty]

Type
    -t, --type <>         value is given this type
    --bool                value is "true" or "false"
    --int                 value is decimal number
    --bool-or-int         value is --bool or --int
    --bool-or-str         value is --bool or string
    --path                value is a path (file or directory name)
    --expiry-date         value is an expiry date

Other
    -z, --null            terminate values with NUL byte
    --name-only           show variable names only
    --includes            respect include directives on lookup
    --show-origin         show origin of config (file, standard input, blob, command line)
    --show-scope          show scope of config (worktree, local, global, system, command)
    --default <value>     with --get, use default value when missing entry
```

CLONE:

```
ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git clone https://github.com/ragulmuthusami/cognizance.git
Cloning into 'cognizance'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 10 (delta 3), reused 7 (delta 0), pack-reused 0
Receiving objects: 100% (10/10), done.
Resolving deltas: 100% (3/3), done.

ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$
```

RESET:

```
ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git log --oneline
7ca32ae (HEAD -> main, origin/main) Merge branch 'f1'
8a366bd (f1) this is a test2 file
0b7060f first commit
6295112 this is a text file

ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$ git reset 8a366bd --hard
HEAD is now at 8a366bd this is a test2 file

ragul@RagulMuthusami MINGW64 ~/cognizance (main)
$
```