

MCA - I Advanced Software Development Methodologies (ASDM) Git Practical

1. Know your path

```
imrd@imrdcomp36 MINGW64 ~  
$ pwd  
/c/Users/imrd
```

```
imrd@imrdcomp36 MINGW64 ~  
$ cd Desktop
```

```
imrd@imrdcomp36 MINGW64 ~/Desktop  
$ pwd  
/c/Users/imrd/Desktop
```

2. create your own repository on local computer

```
imrd@imrdcomp36 MINGW64 ~/Desktop  
$ mkdir mca
```

```
imrd@imrdcomp36 MINGW64 ~/Desktop  
$ cd mca
```

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca  
$ pwd  
/c/Users/imrd/Desktop/mca
```

3. initialize git

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca  
$ git init  
Initialized empty Git repository in C:/Users/imrd/Desktop/mca/.git/
```

4. config your user name and email

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)  
$ git config --global user.name "mca-1"
```

5. if already exist replace

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)  
$ git config --global --replace-all user.email "umargd123@gmail.com"
```

6.verify your email address according to github email

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)
$ git config --global user.email
umargd123@gmail.com
```

7.create your file

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)
$ touch f1.txt
```

8.edit created file write something

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)
$ notepad f1.txt
```

9.add file to staging area

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)
$ git add f1.txt
```

10.commit changes

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)
$ git commit -m"fist"
[master (root-commit) 444a9ea] fist
1 file changed, 1 insertion(+)
create mode 100644 f1.txt
```

11.create new branch

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)
$ git branch mca
```

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)
$ git branch
* master
mca
```

12.switch to your branch

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (master)
$ git checkout mca
Switched to branch 'mca'
```

13.check git status

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
$ git status
On branch mca
nothing to commit, working tree clean
```

14.check git log

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
$ git log -v
commit 444a9eaff3d7acf01782fef5dcf9f50bc6721b98 (HEAD -> mca, master)
Author: mca-1 <umargd123@gmail.com>
Date: Wed Jun 29 09:37:31 2022 +0530
```

fist

15.generate SSH key

```
// find commands on github setting
// copy paste the commands
```

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
$ ssh-keygen -t ed25519 -C "umargd123@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/imrd/.ssh/id_ed25519):
Created directory '/c/Users/imrd/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/imrd/.ssh/id_ed25519
Your public key has been saved in /c/Users/imrd/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:RIrGSkh0RjDvHdTXtGKvUXMW0r/LBnud8EdoWop3kH0 umargd123@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
|.=o+ .. .oo.. |
|..=... + .o.. |
|. ..+. oo + o. |
|..o. ... ++ . |
| .. S. . o ..|
|      o oo=.E|
|      . . **o+|
|      . +..Bo|
```

```
| .o.|  
+----[SHA256]-----+
```

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
```

```
$ eval "$(ssh-agent -s)"
```

```
Agent pid 1210
```

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
```

```
$ ssh-add ~/.ssh/id_ed25519
```

```
Identity added: /c/Users/imrd/.ssh/id_ed25519 (umargd123@gmail.com)
```

16.copy SSH key and paste to generate new key

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
```

```
$ clip < ~/.ssh/id_ed25519.pub
```

17.create new repository and copy paste the commands

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
```

```
$ git remote add origin https://github.com/Umarkhan7312/mca-1.git
```

18.push changes to git account

```
// verify branch name before push operation
```

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
```

```
$ git push -u origin mca
```

```
Enumerating objects: 3, done.
```

```
Counting objects: 100% (3/3), done.
```

```
Writing objects: 100% (3/3), 208 bytes | 208.00 KiB/s, done.
```

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

```
To https://github.com/Umarkhan7312/mca-1.git
```

```
* [new branch] mca -> mca
```

```
branch 'mca' set up to track 'origin/mca'.
```

19.perform pull operation using branch name

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
```

```
$ git pull origin mca
```

```
From https://github.com/Umarkhan7312/mca-1
```

```
* branch mca -> FETCH_HEAD
```

```
Already up to date.
```

20.perform pull operation using file path

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
$ git pull https://github.com/Umarkhan7312/mca-1.git
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 621 bytes | 4.00 KiB/s, done.
From https://github.com/Umarkhan7312/mca-1
* branch      HEAD    -> FETCH_HEAD
Updating 444a9ea..7e38374
Fast-forward
 f1.txt | 3 ++-
1 file changed, 2 insertions(+), 1 deletion(-)
```

21.verify changes

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)

$ notepad f1.txt
```

22.clone git repository

```
imrd@imrdcomp36 MINGW64 ~/Desktop/mca (mca)
$ git clone https://github.com/Umarkhan7312/mca-1.git
Cloning into 'mca-1'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.
```