## Run a factorial program using git commands

```
MINGW64:/c/Users/Varnika Mulay/Downloads/coursera

Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~ (main)
$ cd "C:/Users/Varnika Mulay/Downloads"

Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads (master)
$ python factorial_program.py
Enter number: 7
Factorial of 7 is: 5040

Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads (master)
$ python factorial_program.py
Enter number: -1
Negative number!

Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads (master)
$ python factorial_program.py
Enter number: 0
Factorial of 0 is 1
```

## Access and update GitHub repo using git commands

```
WINGW64:/c/Users/Varnika Mulay/Downloads/coursera

Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads (master)

$ git init
Reinitialized existing Git repository in C:/Users/Varnika Mulay/Downloads/.git/

Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads (master)

$ git clone https://github.com/Varnika-M-2004/coursera

Cloning into 'coursera'...
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Varnika-M-2004/coursera/'

Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads (master)

$ git clone "https://github.com/Varnika-M-2004/coursera"

Cloning into 'coursera'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 14 (delta 1), reused 8 (delta 0), pack-reused 0
Receiving objects: 100% (14/14), done.
Resolving deltas: 100% (1/1), done.
```

```
MINGW64:/c/Users/Varnika Mulay/Downloads/coursera
/arnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads (master)
$ cd coursera
Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads/coursera (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads/coursera (main)
$ git add example.py
Varnika Mulay@LAPTOP-S6R999JO MINGW64 ~/Downloads/coursera (main)
$ git commit -m "Add example.py file"
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads/coursera (main)
$ nano example.py
Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads/coursera (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
/arnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads/coursera (main)
$ git add example.py
Varnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads/coursera (main) $ git commit -m "Update example.py file"
[main a9441ca] Update example.py file
 1 file changed, 1 insertion(+)
```

```
MINGW64:/c/Users/Varnika Mulay/Downloads/coursera
 /arnika Mulay@LAPTOP-S6R999J0 MINGW64 ~/Downloads/coursera (main)
s git log
commit a9441ca2573b40ff935060e36972f100aeb0c779 (HEAD -> main, origin/main, origin/HEAD)
in/HEAD)
in/HEAD
Author: Varnika-M-2004 <88385934+Varnika-M-2004@users.noreply.github.com>
Date: Tue Jul 2 20:02:12 2024 +0530
     Update example.py file
commit bba58065a484b84e14592d5fefbc073df3964164
Merge: 5c58348 5cf6d4d
Author: Varnika Mulay <varni.mulay@gmail.com>
Date: Thu Aug 5 05:11:16 2021 +0000
     Merge branch 'main' of https://github.com/Varnika-M-2004/coursera into main
commit 5cf6d4db42d4350ccc595228646680dc9f508600
Author: Varnika-M-2004 <88385934+Varnika-M-2004@users.noreply.github.com>
Date: Thu Aug 5 10:40:07 2021 +0530
     My first commit.
commit 5c58348dcf65c53a05a9874463fb283e9cccaf29
Author: Varnika Mulay <varni.mulay@gmail.com>
Date: Thu Aug 5 05:07:46 2021 +0000
     I have added a few more lines.
:...skipping...
commit a9441ca2573b40ff935060e36972f100aeb0c779 (HEAD -> main, origin/main, origin/HEAD)
Author: Varnika-M-2004 <88385934+Varnika-M-2004@users.noreply.github.com>
Date: Tue Jul 2 20:02:12 2024 +0530
     Update example.py file
 ommit bba58065a484b84e14592d5fefbc073df3964164
Merge: 5c58348 5cf6d4d
Author: Varnika Mulay <varni.mulay@gmail.com>
Date: Thu Aug 5 05:11:16 2021 +0000
     Merge branch 'main' of https://github.com/Varnika-M-2004/coursera into main
    mmit 5cf6d4db42d4350ccc595228646680dc9f508600
Author: Varnika-M-2004 <88385934+Varnika-M-2004@users.noreply.github.com>
Date: Thu Aug 5 10:40:07 2021 +0530
      My first commit.
commit 5c58348dcf65c53a05a9874463fb283e9cccaf29
Author: Varnika Mulay <varni.mulay@gmail.com>
Date: Thu Aug 5 05:07:46 2021 +0000
      I have added a few more lines.
commit 708f43f0bf2899395df83575b6989f1f0dd76c58
Author: Varnika Mulay <varni.mulay@gmail.com>
            Thu Aug 5 05:05:20 2021 +0000
Date:
      I am editing the README file.
```

commit 74e5ab38540658a236021ca003c701857f0fead6

Thu Aug 5 10:30:00 2021 +0530

Date:

Initial commit

Author: Varnika-M-2004 <88385934+Varnika-M-2004@users.noreply.github.com>

```
Varnika Mulay@LAPTOP-S6R999JO MINGW64 ~/Downloads/coursera (main)
$ git pull
Already up to date.

Varnika Mulay@LAPTOP-S6R999JO MINGW64 ~/Downloads/coursera (main)
$ git branch
* main

Varnika Mulay@LAPTOP-S6R999JO MINGW64 ~/Downloads/coursera (main)
$ git diff

Varnika Mulay@LAPTOP-S6R999JO MINGW64 ~/Downloads/coursera (main)
$ |
```