```
>> pwd
/c/Users/bk628/OneDrive/Desktop/WEB_DEV

>> git --version
git version 2.39.0.windows.2

>> mkdir python_programs


>> ls
python_programs/


>> cd python_programs


>> pwd
/c/Users/bk628/OneDrive/Desktop/WEB_DEV/python_programs


>> ls


>> ls -a
./   ../


>> git init
Initialized empty Git repository in
C:/Users/bk628/OneDrive/Desktop/WEB_DEV/python_programs/.git/


>> ls


>> ls -a
./   ../   .git/


>> cd .git


>> ls
config        FETCH_HEAD  hooks/  objects/
description  HEAD         info/   refs/

>> cd ..
```

```
>> git status
On branch master

No commits yet

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

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


>> git add hello_world.py


>> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   hello_world.py


>> git commit -m "hello world program code added"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'bk628@Bharat2044.(none)')


>> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   hello_world.py
```

```
>> git config user.name "Bharat2044"      // OR, >> git config --global  user.name
"Bharat2044"


>> git config user.email "bk9955204456@gmail.com"     // OR, >> git config --global
user.email "bk9955204456@gmail.com"


>> git config user.name
Bharat2044


>> git config user.email
bk9955204456@gmail.com


>> git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=Bharat2044
user.email=bk9955204456@gmail.com
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false


>> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
```

```
        new file:    hello_world.py


>> git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
        new file:    hello_world.py

Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in work


>> git commit -m "Hello World code updated"
[master (root-commit) 713ea7f] Hello World code updated
1 file changed, 2 insertions(+)
create mode 100644 hello_world.py


>> git status
On branch master
nothing to commit, working tree clean


>> git log   // used to check the history
commit 713ea7f641ee8656980d16a1cc5126b19ed4576a (HEAD -> master)
Author: Bharat2044 <bk9955204456@gmail.com>
Date:   Sat Jun 3 12:24:15 2023 +0530

    Hello World code updated


>> git log -2
commit 713ea7f641ee8656980d16a1cc5126b19ed4576a (HEAD ->
master)
Author: Bharat2044 <bk9955204456@gmail.com>
Date:   Sat Jun 3 12:24:15 2023 +0530

    Hello World code updated


>> git log --oneline
713ea7f (HEAD -> master) Hello World code updated
```

```
>> git log -p
commit 713ea7f641ee8656980d16a1cc5126b19ed4576a (HEAD -> master)
Author: Bharat2044 <bk9955204456@gmail.com>
Date:   Sat Jun 3 12:24:15 2023 +0530

    Hello World code updated

diff --git a/hello_world.py b/hello_world.py
new file mode 100644
index 0000000..bd05293
--- /dev/null
+++ b/hello_world.py
@@ -0,0 +1,2 @@
+print("Hello, World");
+print("Hello, World");
\ No newline at end of file


>> git log --stat
commit 713ea7f641ee8656980d16a1cc5126b19ed4576a (HEAD -> master)
Author: Bharat2044 <bk9955204456@gmail.com>
Date:   Sat Jun 3 12:24:15 2023 +0530

    Hello World code updated

hello_world.py | 2 ++
1 file changed, 2 insertions(+)


>> cat hello_world.py   // print all data inside tha file
print("Hello, World");
print("Hello, World");


>> less hello_world.py   // print some data inside tha file
print("Hello, World");
print("Hello, World");


>> clear     // clear the console


>> git diff  // checks what mades changes between working directory and staging area
diff --git a/hello_world.py b/hello_world.py
index bd05293..efcc74a 100644
--- a/hello_world.py
+++ b/hello_world.py
@@ -1,2 +1,8 @@
print("Hello, World");
```

```
-print("Hello, World");
\ No newline at end of file
+
+a = 2+3;
+b = 4-2;
+c = 4*2;
+d = 4/2;
+
+print(a, b, c, d);



>> git diff --staged  // checks what mades changes between staging area and repository


--------------------------------------------
        Repository
            ^^
            ||      git diff --staged
            ||
        Staging Area
            ^^
            ||      git diff
            ||
        Working Directory
--------------------------------------------



>> git status
On branch master
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)
        modified:   hello_world.py

no changes added to commit (use "git add" and/or "git commit -a")



>> git add hello_world.py



>> git commit -m "Updaed hello world code"
[master 4939c09] Updaed hello world code
1 file changed, 7 insertions(+), 1 deletion(-)



>> git status
On branch master
nothing to commit, working tree clean
```

```
>> git log
commit 4939c095bf23c63501ca61f6802ea8aa7967ae54 (HEAD -> master)
Author: Bharat2044 <bk9955204456@gmail.com>
Date:   Sat Jun 3 12:42:35 2023 +0530

    Updaed hello world code


commit 713ea7f641ee8656980d16a1cc5126b19ed4576a
Author: Bharat2044 <bk9955204456@gmail.com>
Date:   Sat Jun 3 12:24:15 2023 +0530

    Hello World code updated



* Create a repository on GitHub where you push your code
* Push the local repository


>> git remote add origin https://github.com/Bharat2044/python_programs.git   //Tells
where you push your code


>> git push -u origin master
error: src refspec master does not match any
error: failed to push some refs to 'https://github.com/Bharat2044/python_programs.git'


>> git push --set-upstream origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 546 bytes | 91.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Bharat2044/python_programs.git
* [new branch]      master -> master
branch 'master' set up to track 'origin/master'.



>> git status
On branch master
Your branch is up to date with 'origin/master'.

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)
        modified:   hello_world.py
```

```
no changes added to commit (use "git add" and/or "git commit -a")


>> git add hello_world.py


>> git commit -m "Using f-string"
[master d48805e] Using f-string
1 file changed, 3 insertions(+)


>> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 359 bytes | 119.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Bharat2044/python_programs.git
   4939c09..d48805e  master -> master
```