Git commands

Git init & Git add

```
/c/Users/Windows 10
$ cd Desktop/
Vindows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop
$ cd ts
Windows 10@DESKTOP-F5Q0D1V MINGW64 ~/Desktop/ts (master)
.
ADV PYTHON.pdf' 'Bit Manipulation Notes.pdf' 'CORE PYTHON.pdf' Python.pdf python_1.ipynb
 /indows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
Reinitialized existing Git repository in C:/Users/Windows 10/Desktop/ts/.git/
Vindows 10@DESKTOP-F5Q0D1V MINGW64 ~/Desktop/ts (master)
$ git add python_1.ipynb
varning: in the working copy of 'python_1.ipynb', LF will be replaced by CRLF the next time Git touches it
 /indows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git status
On branch master
No commits yet
Changes to be committed:
 (use "git rm --cached <file>..." to unstage)
        new file: python_1.ipynb
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .ipynb_checkpoints/
ADV PYTHON.pdf
Bit Manipulation Notes.pdf
CORE PYTHON.pdf
Python.pdf
```

Git commit

Git show

```
$ git show
commit effb98ce590d749685a5e05eef043ff666a27f14 (HEAD -> master)
Author: Saisree5 <saisree0403@gmail.com>
Date: Thu May 16 19:57:53 2024 +0530
    My first commit
diff --git a/python_1.ipynb b/python_1.ipynb
new file mode 100644
index 0000000..f9a8202
--- /dev/null
+++ b/python_1.ipynb
@ -0,0 +1,1018 @@
    "cell_type": "code",
"execution_count": 1,
    "id": "57659c5e",
"metadata": {},
"outputs": [
       "output_type": "stream",
       "text": [
"Welcome\n"
    ],
"source": [
"print(\"Welcome\")".
    "id": "8700a3aa",
    "metadata": {},
"outputs": [],
"source": [
     "#Datatypes"
    "cell_type": "code",
    "execution_count": 6,
    "id": "90a52628",
    "metadata": {},
"outputs": [
```

Git log

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git log
commit effb98ce590d749685a5e05eef043ff666a27f14 (HEAD -> master)
Author: Saisree5 <saisree0403@gmail.com>
Date: Thu May 16 19:57:53 2024 +0530

My first commit

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git log --oneline
effb98c (HEAD -> master) My first commit
```

Git config

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git config --global user.name "SaiSreeSajja"

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git config --global user.email "saisree.sajja@thundersoft.com"
```

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git config --global user.email
saisree.sajja@thundersoft.com

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git config --global user.name
SaiSreeSajja
```

Git remote

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git remote add origin https://github.com/SaiSreeSajja/Python.git
```

Git push

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 2.91 KiB | 372.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
            https://github.com/SaiSreeSajja/Python/pull/new/master
remote:
remote:
To https://github.com/SaiSreeSajja/Python.git
 * [new branch]
                    master -> master
```

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (main)
$ git diff 76476af effb98c
diff --git a/python_2.ipynb b/python_2.ipynb
deleted file mode 100644
index ee1ef58..0000000
 --- a/python_2.ipynb
+++ /dev/null
 @ -1,1286 +0,0 @@
                : "stdout",
nt_type": "stream",
            Welcome\n",
2129102078160 2129102078160\n"
        "name": "stdout",
"output_type": "stream",
```

Git branch

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (main)
$ git branch
 master
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (main)
$ git checkout master
Switched to branch 'master'
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git branch first
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git checkout first
Switched to branch 'first'
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (first)
$ cat > file1
Hello welcome everyone
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (first)
$ git checkout master
Switched to branch 'master'
```

Git checkout

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (first)

$ git branch

* first
    main
    master
    second

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (first)

$ git checkout second

Switched to branch 'second'

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (second)

$ cat > file3

hlo this is file3
```

Git merge

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (second)
$ git checkout first
Switched to branch 'first'
 /indows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (first)
$ git add file1 file2
warning: in the working copy of 'file1', LF will be replaced by CRLF the next time Git touches it warning: in the working copy of 'file2', LF will be replaced by CRLF the next time Git touches it
 /indows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (first)
$ git commit -m "first branch commits"
[first 4230384] first branch commits
 2 files changed, 2 insertions(+)
create mode 100644 file1
 create mode 100644 file2
 Vindows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (first)
$ git checkout second
Switched to branch 'second'
 Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (second)
$ git add file3
 varning: in the working copy of 'file3', LF will be replaced by CRLF the next time Git touches it
 /indows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (second)
$ git commit -m "second branch commits"
[second 1d5bcfc] second branch commits
1 file changed, 1 insertion(+)
 create mode 100644 file3
```

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (second)

$ git merge first

Merge made by the 'ort' strategy.
file1 | 1 +
file2 | 1 +
2 files changed, 2 insertions(+)
create mode 100644 file1
create mode 100644 file2

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (second)
$ git branch
first
main
master

* second
```

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (second)

$ git log --oneline
6075546 (HEAD -> second) Merge branch 'first' into second
1d5bcfc second branch commits
4230384 (first) first branch commits
0700ec3 (origin/master, master) Second Commit
effb98c My first commit
```

Git rebase

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)

$ git rebase 6075546
Successfully rebased and updated refs/heads/master.

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)

$ git log --oneline
6075546 (HEAD -> master, second) Merge branch 'first' into second
1d5bcfc second branch commits
4230384 (first) first branch commits
0700ec3 (origin/master) Second Commit
effb98c My first commit
```

Git reset

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git reset 4230384

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git log --oneline
4230384 (HEAD -> master, first) first branch commits
0700ec3 (origin/master) Second Commit
effb98c My first commit
```

Git revert

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git revert 4230384
[master a6c3817] Revert "first branch commits"
2 files changed, 2 deletions(-)
delete mode 100644 file1
delete mode 100644 file2

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git log --oneline
a6c3817 (HEAD -> master) Revert "first branch commits"
4230384 (first) first branch commits
0700ec3 (origin/master) Second Commit
effb98c My first commit
```

Git blame

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ cat > file1
hello
 /indows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git add file1
warning: in the working copy of 'file1', LF will be replaced by CRLF the next time Git touches it
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git commit -m "file1"
[master 8ad2ab2] file1
1 file changed, 1 insertion(+)
 create mode 100644 file1
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master) $ cat > file1
hello
everyone
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git add file1
warning: in the working copy of 'file1', LF will be replaced by CRLF the next time Git touches it
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git commit -m "file1"
[master 9d0b468] file1
1 file changed, 1 insertion(+)
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git blame file1
8ad2ab27 (SaiSreeSajja 2024-05-22 18:29:59 +0530 1) hello
9d0b4682 (SaiSreeSajja 2024-05-22 18:30:18 +0530 2) everyone
```

Git status

Git restore

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git restore --staged file1
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ 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)
Untracked files:
  (use "git add <file>..." to include in what will be committed)
          .ipynb_checkpoints/
ADV PYTHON.pdf
Bit Manipulation Notes.pdf
CORE PYTHON.pdf
Python.pdf
Python/
file3
          git commands.rtf
pat.txt
text.txt
          ~$t commands.rtf
no changes added to commit (use "git add" and/or "git commit -a")
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git restore file1
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
          git add <file>..." to incl
.ipynb_checkpoints/
ADV PYTHON.pdf
Bit Manipulation Notes.pdf
CORE PYTHON.pdf
Python.pdf
Python/
file3
          git commands.rtf
pat.txt
text.txt
~$t commands.rtf
nothing added to commit but untracked files present (use "git add" to track)
```

Git rm

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git rm file1
rm 'file1'

Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git status
On branch master
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        deleted: file1

Untracked files:
   (use "git add <file>..." to include in what will be committed)
        .ipynb_checkpoints/
        ADV PYTHON.pdf
        Bit Manipulation Notes.pdf
        CORE PYTHON.pdf
        Python/
        file3
        git commands.rtf
        pat.txt
        text.txt
        ~$t commands.rtf
```

Git fetch

```
Windows 10@DESKTOP-F5Q0D1V MINGW64 ~/Desktop/ts (master)

$ git fetch https://github.com/SaiSreeSajja/Git.git
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 857 bytes | 6.00 KiB/s, done.
From https://github.com/SaiSreeSajja/Git

* branch HEAD -> FETCH_HEAD
```

Git clone

```
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ git clone https://github.com/SaiSreeSajja/Git.git
Cloning into 'Git'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts (master)
$ cd Git
Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts/Git (main) $ cat > information
This repository has the commands and how there are used along with screen shots
 Vindows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts/Git (main)
$ git push origin main
Everything up-to-date
 /indows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts/Git (main)
$ git add information
warning: in the working copy of 'information', LF will be replaced by CRLF the next time Git touches it
Windows 10@DESKTOP-F5Q0D1V MINGW64 ~/Desktop/ts/Git (main) $ git commit -m "description"
 [main ec03e74] description
 1 file changed, 1 insertion(+) create mode 100644 information
 Windows 10@DESKTOP-F5QOD1V MINGW64 ~/Desktop/ts/Git (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Counting objects: 100% (4/4), done.

Delta compression using up to 4 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 352 bytes | 88.00 KiB/s, done.

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

To https://github.com/SaiSreeSajja/Git.git
fa41287..ec03e74 main -> main
```