

LAB ASSIGNMENT NO -03

Aim: To perform various Git operations.

➤ **What is Git?**

Git is an open source version control system that works locally to help developers work together on software projects that matter. This cheat sheet provides a quick reference to commands that are useful for working and collaborating in a Git repository (repo)

➤ **Git commands:**

Initializing

Starting up Git within a project and getting it connected.

- `git init`-Initializes (or starts) your current working directory (folder) as a Git repository (repo).
- `git clone https://www.github.com/username/repo-name-Copies` an existing Git repo hosted remotely.
- `git remote o git remote-v` : Shows your current Git directory's remote repo. Use the -v flag for more info.
- `git remote add upstream:`
<https://www.github.com/username/repo-name>: Adds the Git upstream to a URL.

Staging

Creating files staged after modifying a file and marking it ready to go in the next commit.

- `git status`: Checks the status of your Git repo including files added that are not staged.
- `git add .` or `git add my_script.js` : Stages modified files. If you make changes that you want included in the next commit, you can run add again. Use “`git add .`” for all files to be staged, or specific files by name.
- `git reset my_script.js` :Removes a file from staging while retaining changes within your working directory.

Committing

Recording changes made to the repo.

- `git commit -m “commit message”` : Commits stages files with a meaningful commit message so that you and others can track

commits

- `git commit -am "Commit message"` : Condenses all tracked files by committing them in one step.
- `git commit -amend -m "New commit message"` : Modifies your commit message.

Branching

Isolating work and managing feature development in one place.

- `git branch`: Lists all current branches. An asterisk (*) will appear next to your currently active branch.
- `git branch new-branch`: Creates a new branch. You will remain on your currently active branch until you switch to the new one.
- `git checkout another-branch` : Switches to any existing branch and checks it out into your current working directory.
- `git checkout -b new-branch`: Consolidates the creation and checkout of a new branch.
- `git branch -d branch -name`: Deletes a branch

Collaborating and Sharing

Downloading changes from another repository or sharing changes with the larger codebase.

- `git push origin main`: Pushes or sends your local branch commits to the remote repo.
Note: some repos use master instead of main in their commands.
- `git pull` : Fetches and merges any commits from the tracking remote branch.
- `git merge upstream/main` : Merges the fetched commits.

Showing changes

See changes between commits, branches and more.

- `git diff --staged` : Compares modified files that are in the staging area.
- `git diff a-branch . . b-branch` : Displays the diff of what is in 'a-branch' but is not in 'b-branch'.
- `git diff 61ce3e6 . . e221d9c` : Uses commit id to show the diff between two specific commits.

```
MINGW64/c/Users/1002/altaf/python
1002MU2032 MINGW64 ~/altaf/python (main)
$ git pull
From https://github.com/Altafalam3/Python
   c3e6891..6e44175  main       -> origin/main
Already up to date.

1002MU2032 MINGW64 ~/altaf/python (main)
$ git push -u origin main
remote: Permission to Altafalam3/Python.git denied to Altafalam3.
fatal: unable to access 'https://github.com/Altafalam3/Python.git/': The requested URL returned error: 403

1002MU2032 MINGW64 ~/altaf/python (main)
$ git push -u origin main
Enumerating objects: 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), 801.92 KiB | 25.06 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To https://github.com/Altafalam3/Python.git
   6e44175..935e184  main -> main
branch 'main' set up to track 'origin/main'.

1002MU2032 MINGW64 ~/altaf/python (main)
$ git add .
1002MU2032 MINGW64 ~/altaf/python (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   ass2.pdf

1002MU2032 MINGW64 ~/altaf/python (main)
$ git reset ass2.pdf
1002MU2032 MINGW64 ~/altaf/python (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        ass2.pdf

MINGW64/c/Users/1002/altaf/Python
added programs
commit 25aba0f6d75b9dce75bd1c125a156a838e93354
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Nov 8 19:39:11 2022 +0530

    Update 2_Operators.py

commit 49390b5940edf2a588045647ead2460020dd577
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Nov 8 19:37:21 2022 +0530

    Update 2_Operators.py

commit bcd51c4fcb781814d58c287e99ad11c2bf68e5e
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Nov 8 19:26:31 2022 +0530

    Update 3_Strings.py

commit 233f41e3f615594715491fcceae7a72b39d6f8f9
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Nov 8 19:14:49 2022 +0530

    Update 3_Strings.py

commit fc3477910886f1ccc0c21e0beb879459061692b4
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Nov 8 19:11:38 2022 +0530

    Update 2_Operators.py

commit 4b031137f31ffa667d268366c5c2aa0ca424fa56
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Nov 8 19:06:38 2022 +0530

    Update 2_Operators.py

commit 17c38502acefd9ea2a32836527adc65b25d8a2c5
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Nov 8 18:55:46 2022 +0530

    Update 2_Variables.py

commit a7a19567248cb76fbff392f810d1390d064d3fd
Author: Altafalam3 <altaf.alam0032@gmail.com>
Date: Tue Nov 8 13:43:44 2022 +0530

added programs
(END)
```

```
MINGW64/c/Users/1002/altaf/Python
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git push -u origin main
fatal: User cancelled dialog.
error: unable to read askpass response from 'C:/Program Files/Git/mingw64/bin/git-askpass.exe'
Username for 'https://github.com':
commit 935e184aec549146ced10e0626736149aa7ebc4 (HEAD -> main)
Author: Nj180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:07:57 2023 +0530

    pikachu assignment done

commit 6e4417570c12493ac3cdf1d2d27f62fd62321661 (upstream/main)
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Aug 8 15:01:58 2023 +0530

    Add files via upload

commit c3e68939497b845bffa554da00d1e872e975d2 (origin/main, origin/HEAD)
Merge: e8ac134 ed7b936
Author: Altafalam3 <altaf.alam0032@gmail.com>
Date: Sat Feb 25 18:24:28 2023 +0530

    Merge branch 'main' of https://github.com/Altafalam3/PythonBasics

commit e8ac134957814eccf7e69cf9d88249b217bd57d8
Author: Altafalam3 <altaf.alam0032@gmail.com>
Date: Sat Feb 25 18:23:58 2023 +0530

    added

commit ed7b9362015da76548fb9fa9c3675680d093e2
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Fri Jan 27 15:03:13 2023 +0530

    Delete Python directory

commit 9c2a6823aee6cc93f8e7f7cdb9cae50d114e6e8
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Fri Jan 27 15:01:57 2023 +0530

    Add files via upload

commit 1c3bddf8c9b9bef40fdd8a544dba605c0d54851f
...skipping...
commit 935e184aec549146ced10e0626736149aa7ebc4 (HEAD -> main)
Author: Nj180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:07:57 2023 +0530

MINGW64/c/Users/1002/altaf/Python
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ass1.pdf

nothing added to commit but untracked files present (use "git add" to track)
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git add ass1
fatal: pathspec 'ass1' did not match any files
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git add ass1.pdf
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   ass1.pdf

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git commit -m "pikachu assignment done"
[main 935e184] pikachu assignment done
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ass1.pdf
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git push
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git push -u origin main
fatal: User cancelled dialog.
error: unable to read askpass response from 'C:/Program Files/Git/mingw64/bin/git-askpass.exe'
Username for 'https://github.com':
commit 935e184aec549146ced10e0626736149aa7ebc4 (HEAD -> main)
Author: Nj180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:07:57 2023 +0530
```

```
MINGW64/c/Users/1002/altaf/Python
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use 'git push' to publish your local commits)

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ass1.pdf

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

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git add ass1
Fatal: pathspec 'ass1' did not match any files

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git add ass1.pdf

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use 'git push' to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   ass1.pdf

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git commit -m "pikachu assignment done"
[main 935e184] pikachu assignment done
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 ass1.pdf

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git push
$ git push -u origin main
Fatal: User cancelled dialog.
error: unable to read askpass response from 'C:/Program Files/Git/mingw64/bin/git-askpass.exe'
Username for 'https://github.com':
commit 935e184aec549146ced10e0626736149aa7ebc4 (HEAD -> main)
Author: Nj180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:07:57 2023 +0530

MINGW64/c/Users/1002/altaf/Python
1002MU2032 MINGW64 ~/altaf/Python (main)
$ git remote add upstream
usage: git remote add [<options>] <name> <url>

    -f, --fetch           fetch the remote branches
    --tags               import all tags and associated objects when fetching
                        or do not fetch any tag at all (--no-tags)
    -t, --track <branch> branch(es) to track
    -m, --master <branch> master branch
    --mirror[=(push|fetch)]
                        set up remote as a mirror to push to or fetch from

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git remote add upstream https://github.com/Altafalam3/Python.git
error: remote upstream already exists.

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git fetch upstream
From https://github.com/Altafalam3/Python
 * [new branch]      main       -> upstream/main

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git fetch upstream
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 391.30 KiB | 666.00 KiB/s, done.
From https://github.com/Altafalam3/Python
 c3e6893..6e44175  main       -> upstream/main

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git merge upstream/main
Updating c3e6893..6e44175
Fast-forward
 Devops_ass1.rtf | 151685 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 1 file changed, 151685 insertions(+)
 create mode 100644 Devops_ass1.rtf

1002MU2032 MINGW64 ~/altaf/Python (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use 'git push' to publish your local commits)

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

```
MINGW64/c/Users/altaf/Python
10028MU2032 MINGW64 ~ (main)
$ cd altaf
bash: cd: altaf: No such file or directory
10028MU2032 MINGW64 ~ (main)
$ mkdir altaf
10028MU2032 MINGW64 ~ (main)
$ cd altaf
10028MU2032 MINGW64 ~/altaf (main)
$ npm init
bash: npm: command not found
10028MU2032 MINGW64 ~/altaf (main)
$ git init
Initialized empty Git repository in C:/Users/1002/altaf/.git/
10028MU2032 MINGW64 ~/altaf (master)
$ git clone https://github.com/Altafalam3/Python.git
Cloning into 'python'...
remote: Enumerating objects: 102, done.
remote: Counting objects: 100% (102/102), done.
10028MU2032 MINGW64 ~/altaf (master) 0.21 KiB | 517.00 KiB/s, done.
$ mote: Total 102 (delta 45), reused 43 (delta 15), pack-reused 0
10028MU2032 MINGW64 ~/altaf (master)
$ cd Python
10028MU2032 MINGW64 ~/altaf/Python (main)
$ git remote
origin
10028MU2032 MINGW64 ~/altaf/Python (main)
$ git remote -v
origin https://github.com/Altafalam3/Python.git (fetch)
origin https://github.com/Altafalam3/Python.git (push)
10028MU2032 MINGW64 ~/altaf/Python (main)
$ git remote add upstream https://github.com/Altafalam3/Python.git
10028MU2032 MINGW64 ~/altaf/Python (main)
$ git remote add upstream
usage: git remote add [<options>] <name> <url>

    -f, --fetch          fetch the remote branches
    --tags              import all tags and associated objects when fetching
                        or do not fetch any tag at all (--no-tags)

Merge branch 'neww'

commit 7c145250cf47b3f6f42fdd7a3d2f6c331fa39705 (origin/main, origin/HEAD)
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:12:06 2023 +0530

    hds

    ass1.pdf | Bin 984642 -> 0 bytes
    1 file changed, 0 insertions(+), 0 deletions(-)

commit c2b36ad29cb50fdecc40b8ac75ecce3361d80591 (origin/neww, neww)
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:01:25 2023 +0530

    branch push

    README.md | 2 +-
    1 file changed, 1 insertion(+), 1 deletion(-)

commit f40dec66241ace1e800c0788b938bf62cb5e1079 (temp-branch)
Author: Nj180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:37:10 2023 +0530

    check am

    README.md | 1 +
    1 file changed, 1 insertion(+)

commit d3793d6ba2355330cafa4ca7cb75dab54eb92cf54
Author: Nj180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:31:40 2023 +0530

    naya hello world

    ass2.pdf | Bin 0 -> 505793 bytes
    1 file changed, 0 insertions(+), 0 deletions(-)

commit 935e1841ee549146ccdd0d636736149aa7ebc4
Author: Nj180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:07:57 2023 +0530

    pikachu assignment done

10028MU2032 MINGW64 ~/altaf/python (main)
$ |
```

```
MINGW64/c/Users/1002/altaf/python
Already on 'main'
Your branch is up to date with 'origin/main'.

10028MU2032 MINGW64 ~/altaf/python (main)
$ git merge [neww]
Merge: [neww] - not something we can merge

10028MU2032 MINGW64 ~/altaf/python (main)
$ git merge neww
Merge made by the 'ort' strategy.
 README.md | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

10028MU2032 MINGW64 ~/altaf/python (main)
$ git log --stat -M
commit a9241aae98956b7e08cf063a29c4243666339016 (HEAD -> main)
Merge: 7c14525 c2b36ad
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:12:06 2023 +0530

    Merge branch 'neww'

commit 7c145250cf47b3f6f42fdd7a3d2f6c331fa39705 (origin/main, origin/HEAD)
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:10:51 2023 +0530

    hds

    ass1.pdf | Bin 984642 -> 0 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)

commit c2b36ad29cb50fdecc40b8ac75ecce3361d80591 (origin/neww, neww)
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:01:25 2023 +0530

    branch push

 README.md | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

commit f40dec66241acc1c80cc0788b918b62cb5e1079 (temp-branch)
Author: Nj180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:37:10 2023 +0530

    check am

 README.md | 1 +
 1 file changed, 1 insertion(+)

commit d3793d6ba235330caf4ca7cb75dab54eb92cf54

MINGW64/c/Users/1002/altaf/python
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:    ass1.pdf

10028MU2032 MINGW64 ~/altaf/python (main)
$ git push
Everything up-to-date

10028MU2032 MINGW64 ~/altaf/python (main)
$ git push -u origin main
Everything up-to-date
branch 'main' set up to track 'origin/main'.

10028MU2032 MINGW64 ~/altaf/python (main)
$ git pull
Already up to date.

10028MU2032 MINGW64 ~/altaf/python (main)
$ git add .

10028MU2032 MINGW64 ~/altaf/python (main)
$ git commit -m "hds"
[main 7c14525] hds
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 ass1.pdf

10028MU2032 MINGW64 ~/altaf/python (main)
$ git push
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% (2/2), 225 bytes | 225.00 KiB/s, done.
Total 2 (delta 1); reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Altafalam3/Python.git
   f40dec6..7c14525  main -> main

10028MU2032 MINGW64 ~/altaf/python (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

10028MU2032 MINGW64 ~/altaf/python (main)
$ git merge [neww]
```

```
MINGW64/c/Users/1002/altaf/python
added
commit ed7b9362015da76548fb0fa69c03675680d053e2
Author: Altaf Alam <102013452+AltafAlam3@users.noreply.github.com>
Date: Fri Jan 27 15:03:13 2023 +0530

Delete Python directory

10028MU2032 MINGW64 ~/altaf/python (main)
$ git log main..neww
commit c2b36ad29cb50fdecc40b8ac75ecec3361d80591 (origin/neww, neww)
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:01:25 2023 +0530

branch push

10028MU2032 MINGW64 ~/altaf/python (main)
$ git diff main..neww
diff --git a/README.md b/README.md
index f419246..9770027 100644
--- a/README.md
+++ b/README.md
@@ -1,2 +1,2 @@
- # PythonBasics
- hello
+ \ No newline at end of file
+ hello
\ No newline at end of file

10028MU2032 MINGW64 ~/altaf/python (main)
$ git diff neww...main

10028MU2032 MINGW64 ~/altaf/python (main)
$ git show [SHA]

10028MU2032 MINGW64 ~/altaf/python (main)
$ git rm ass1.pdf
rm 'ass1.pdf'

10028MU2032 MINGW64 ~/altaf/python (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:   ass1.pdf

MINGW64/c/Users/1002/altaf/python
commit 17c38502acefd3ea2a32836527adc65b25d8a2c5
Author: Altaf Alam <102013452+AltafAlam3@users.noreply.github.com>
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Update 2_Variables.py

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Author: AltafAlam3 <altaf.alam0032@gmail.com>
Date: Tue Nov 8 13:43:44 2022 +0530

added programs

10028MU2032 MINGW64 ~/altaf/python (main)
$ git log main neww
commit c2b36ad29cb50fdecc40b8ac75ecec3361d80591 (origin/neww, neww)
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:01:25 2023 +0530

branch push

commit f40dec66241ace1e800c0788b938bf62cb5e1079 (HEAD -> main, origin/main, origin/HEAD, temp-branch)
Author: NJ180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:37:10 2023 +0530

check an

commit d3793d6ba2355330caf4ca7cb75dab54eb92cf54
Author: NJ180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:31:40 2023 +0530

naya hello world

commit 935e1841aec549146ced10e0626736149aa7ebc4
Author: NJ180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:07:57 2023 +0530

pikachu assignment done

commit 6e4417570c12493ac3cdf1d2d27f62fd62321661 (upstream/main)
Author: Altaf Alam <102013452+AltafAlam3@users.noreply.github.com>
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Date: Sat Feb 25 18:24:28 2023 +0530

Merge branch 'main' of https://github.com/AltafAlam3/PythonBasics
```



```
MINGW64/c/Users/1002/altaf/python
1002MU2032 MINGW64 ~/altaf/python (main)
$ git log neww
commit c2b36ad29cb50fdecc40b8ac75ecec3361d80591 (origin/neww, neww)
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:01:25 2023 +0530

    branch push

commit F40dec66241ace1e800c0788b918bf62cb5e1079 (HEAD -> main, origin/main, origin/HEAD, temp-branch)
Author: NJ180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:37:10 2023 +0530

    check am

commit d3793d6ba2355330caf4ca7cb75dab54eb92cf54
Author: NJ180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:31:40 2023 +0530

    naya hello world

commit 935e1841aec549146ced10e0626736149aa7ebc4
Author: NJ180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:07:57 2023 +0530

    pikachu assignment done

commit 6e4417570c12493ac3cdf1d2d27f62fd62321661 (upstream/main)
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Tue Aug 8 15:01:58 2023 +0530

    Add files via upload

commit c3e68939497b845bffa554da00d1e872e975d2
Merge: e8ac134 ed7b936
Author: Altafalam3 <altaf.alam032@gmail.com>
Date: Sat Feb 25 18:24:28 2023 +0530

    Merge branch 'main' of https://github.com/Altafalam3/PythonBasics

commit e8ac134957514eccf7e89cf8d8824b6217b07d8
Author: Altafalam3 <altaf.alam032@gmail.com>
Date: Sat Feb 25 18:23:58 2023 +0530

    added

commit ed7b9362015da76548fb0fa69c03675680d053e2
Author: Altaf Alam <102013452+Altafalam3@users.noreply.github.com>
Date: Fri Jan 27 15:03:13 2023 +0530

MINGW64/c/Users/1002/altaf/python
1002MU2032 MINGW64 ~/altaf/python (neww)
$ git commit -m "branch push"
[neww c2b36ad] branch push
1 file changed, 1 insertion(+), 1 deletion(-)

1002MU2032 MINGW64 ~/altaf/python (neww)
$ git push -u origin neww
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 295 bytes | 295.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote: Create a pull request for 'neww' on GitHub by visiting:
remote:   https://github.com/Altafalam3/Python/pull/neww
remote:
To https://github.com/Altafalam3/Python.git
 * [new branch] neww -> neww
branch 'neww' set up to track 'origin/neww'.

1002MU2032 MINGW64 ~/altaf/python (neww)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

1002MU2032 MINGW64 ~/altaf/python (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

1002MU2032 MINGW64 ~/altaf/python (main)
$ git log neww
commit c2b36ad29cb50fdecc40b8ac75ecec3361d80591 (origin/neww, neww)
Author: [altaf alam] <niranjan180280@gmail.com>
Date: Tue Aug 8 16:01:25 2023 +0530

    branch push

commit F40dec66241ace1e800c0788b918bf62cb5e1079 (HEAD -> main, origin/main, origin/HEAD, temp-branch)
Author: NJ180280 <niranjan180280@gmail.com>
Date: Tue Aug 8 15:37:10 2023 +0530

    check am

commit d3793d6ba2355330caf4ca7cb75dab54eb92cf54
Author: NJ180280 <niranjan180280@gmail.com>
```

```
MINGW64/c/Users/1002/altaf/python
10028MU2032 MINGW64 ~/altaf/python (main)
$ git checkout temp-branch
Switched to branch 'temp-branch'
README.md

10028MU2032 MINGW64 ~/altaf/python (temp-branch)
$ git add .

10028MU2032 MINGW64 ~/altaf/python (temp-branch)
$ git status
On branch temp-branch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   README.md

10028MU2032 MINGW64 ~/altaf/python (temp-branch)
$ git commit -m "hello"
error: pathspec 'hello' did not match any file(s) known to git

10028MU2032 MINGW64 ~/altaf/python (temp-branch)
$ git checkout -b "new"
Switched to a new branch 'new'

10028MU2032 MINGW64 ~/altaf/python (new)
$ git add .

10028MU2032 MINGW64 ~/altaf/python (new)
$ git status
On branch new
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   README.md

10028MU2032 MINGW64 ~/altaf/python (new)
$ git commit -m "branch push"
error: unknown switch 'w'
usage: git commit [-a | --interactive | --patch] [-s] [-v] [--mode] [--amend]
               [--dry-run] [--c | -C | --squash] <commit> | --fixup [<amend|reword>:<commit>]
               [-p <file> | -m <msg>] [--reset-author] [--allow-empty]
               [--allow-empty-message] [--no-verify] [-e] [--author=<author>]
               [--date=<date>] [--cleanup=<mode>] [--no-status]
               [-i | -o] [--paths-from-file=<file>] [--paths-from-file=<null>]
               [--trailer <token>[=<value>]]... [-s] [-<keyid>]

10028MU2032 MINGW64 ~/altaf/python (new-branchh2)
$ git checkout -b new-branchh2
Switched to a new branch 'new-branchh2'

10028MU2032 MINGW64 ~/altaf/python (new-branchh2)
$ git branch -d new-branchh
Deleted branch new-branchh (was f40dec6).

10028MU2032 MINGW64 ~/altaf/python (new-branchh2)
$ git branch -d new-branchh2
error: Cannot delete branch 'new-branchh2' checked out at 'C:/Users/1002/altaf/Python'

10028MU2032 MINGW64 ~/altaf/python (new-branchh2)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

10028MU2032 MINGW64 ~/altaf/python (main)
$ git branch -d new-branchh2
Deleted branch new-branchh2 (was f40dec6).

10028MU2032 MINGW64 ~/altaf/python (main)
$ git diff --staged

10028MU2032 MINGW64 ~/altaf/python (main)
$ git diff --staged

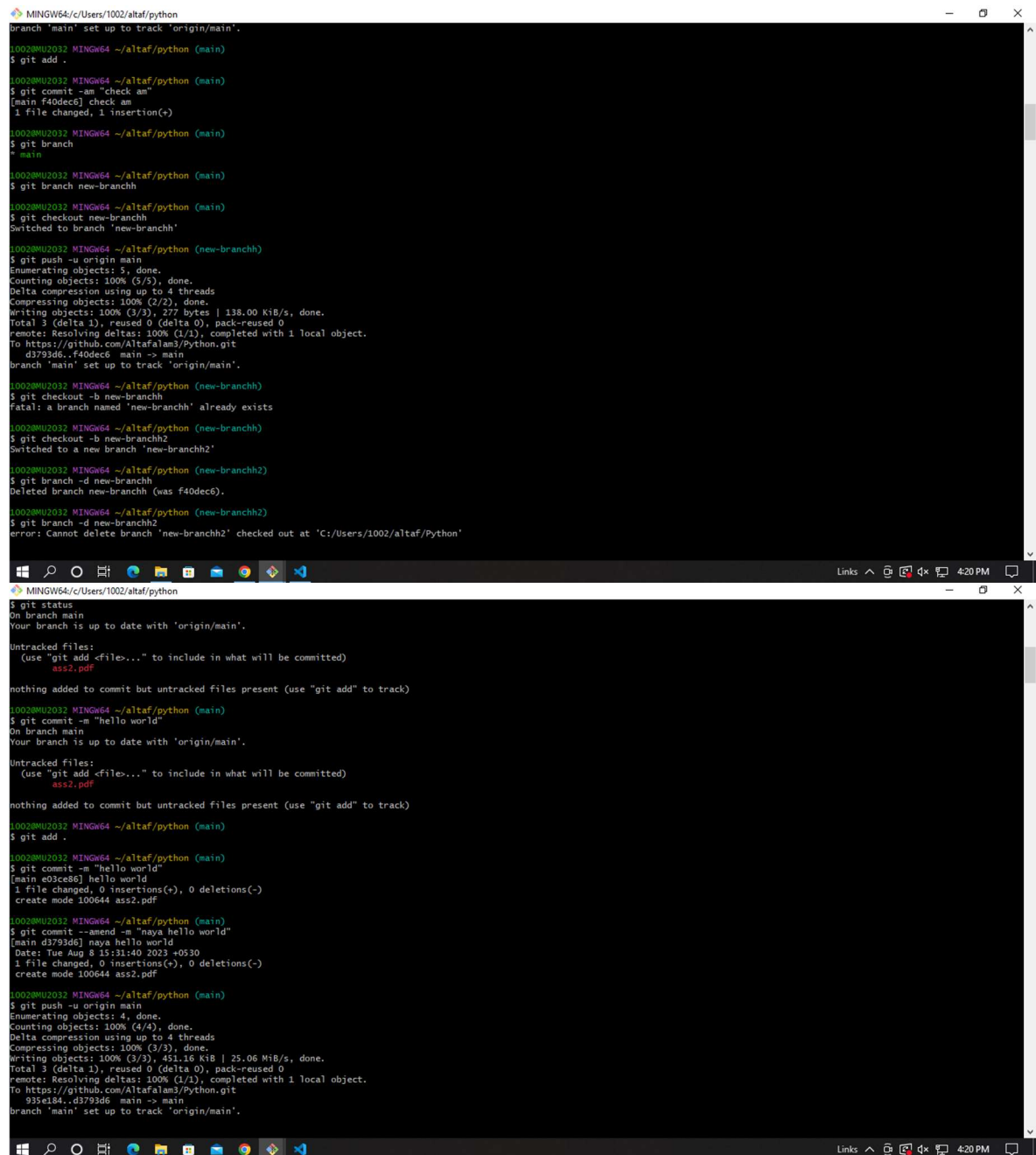
10028MU2032 MINGW64 ~/altaf/python (main)
$ git diff f40dec6
diff --git a/README.md b/README.md
index fa19236..be0d107 100644
--- a/README.md
+++ b/README.md
@@ -1,2 +1,2 @@
-# PythonBasics
-Hello
+
+No newline at end of file
+
+No newline at end of file

10028MU2032 MINGW64 ~/altaf/python (main)
$ git config --global user.name "altaf alan"

10028MU2032 MINGW64 ~/altaf/python (main)
$ git config --global color.ui auto

10028MU2032 MINGW64 ~/altaf/python (main)
$ git checkout temp-branch
error: pathspec 'temp-branch' did not match any file(s) known to git

10028MU2032 MINGW64 ~/altaf/python (main)
```



```
branch 'main' set up to track 'origin/main'.
MINGW64 ~/altaf/python (main)
$ git add .
MINGW64 ~/altaf/python (main)
$ git commit -am "check am"
[main f40dec6] check am
1 file changed, 1 insertion(+)
MINGW64 ~/altaf/python (main)
$ git branch
* main
MINGW64 ~/altaf/python (main)
$ git branch new-branchh
MINGW64 ~/altaf/python (new-branchh)
$ git checkout new-branchh
Switched to branch 'new-branchh'
MINGW64 ~/altaf/python (new-branchh)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 277 bytes | 138.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Altafalam3/Python.git
d3793d6..f40dec6 main -> main
branch 'main' set up to track 'origin/main'.
MINGW64 ~/altaf/python (new-branchh)
$ git checkout -b new-branchh
fatal: a branch named 'new-branchh' already exists
MINGW64 ~/altaf/python (new-branchh)
$ git checkout -b new-branchh2
Switched to a new branch 'new-branchh2'
MINGW64 ~/altaf/python (new-branchh2)
$ git branch -d new-branchh
Deleted branch new-branchh (was f40dec6).
MINGW64 ~/altaf/python (new-branchh2)
$ git branch -d new-branchh2
error: Cannot delete branch 'new-branchh2' checked out at 'C:/Users/1002/altaf/Python'

MINGW64 ~/altaf/python
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  ass2.pdf

nothing added to commit but untracked files present (use "git add" to track)
MINGW64 ~/altaf/python (main)
$ git commit -m "hello world"
[main e03ce86] hello world
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ass2.pdf
MINGW64 ~/altaf/python (main)
$ git add .
MINGW64 ~/altaf/python (main)
$ git commit -m "hello world"
[main e03ce86] hello world
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ass2.pdf
MINGW64 ~/altaf/python (main)
$ git commit --amend -m "naya hello world"
[main d3793d6] naya hello world
Date: Tue Aug 8 15:31:40 2023 +0530
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ass2.pdf
MINGW64 ~/altaf/python (main)
$ git push -u origin main
Enumerating objects: 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), 451.16 KiB | 25.06 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Altafalam3/Python.git
935e184..d3793d6 main -> main
branch 'main' set up to track 'origin/main'.
```

Conclusion: We successfully understood and executed git commands.

Lab Outcome: LO1- To understand the fundamentals of DevOps engineering and be fully proficient with DevOps terminologies, concepts, benefits, and deployment options to meet your business requirements.

LO2- To obtain complete knowledge of the “version control system” to effectively track changes augmented with Git and GitHub.