

Assignment 1 (GitHub)

Problem statement:

ABC Organization would like to opt for the distributed version control system to upgrade their environment, where Git has been selected as the solution. You been assigned as a consultant to educate the migration process to move their Source Code from Centralized to Distributed systems. As a phase one, you would like to go ahead with a workshop to demonstrate below operation to make the ABC team comfortable.

- i) Create a Repository
- ii) Add Two Directory and some raw code files to the repository
- iii) Move Code from One directory to Another Directory
- iv) Update one source code file and display the difference
- v) Create a Branch
- vi) Add some raw code to the branch
- vii) Merge the Branch with Main line

And at the end provide the Summary of advantages of moving from Centralized Source Code to Distributed Version Control.

Student ID	2022MT93331
Student Name	SHELKE AKSHAY NANDKUMAR
Student email ID	2022mt93331@wilp.bits-pilani.ac.in
GitHub Public profile	https://github.com/ShelkeAkshay-2022mt93331
GitHub Solution Repository	https://github.com/ShelkeAkshay-2022mt93331/abc-repo

i) Create a Repository :

GIT Commands from local Git Bash

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment
$ git config --global user.email "2022mt93331@wilp.bits-pilani.ac.in"

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment
$ git config --global user.name "SHELKE AKSHAY NANDKUMAR - 2022mt93331"

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment
$ mkdir abc-repo

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment
$ cd abc-repo/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo
$ mkdir my_repository

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo
$ cd my_repository/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository
$ echo "# xyz" >> README.md

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository
$ git init
Initialized empty Git repository in D:/IntoductionToDevops-Assignment/abc-repo/my_repository/.git/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (master)
$ git commit -m "first commit"
[master (root-commit) 6cad0b8] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (master)
$ git branch -M main

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git remote add origin https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 253 bytes | 253.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$
```

GIT Commands Screenshot from local Git Bash

```
MINGW64:/d/IntoductionToDevops-Assignement/abc-repo/my_repository
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement
$ git config --global user.email "2022mt93331@wilp.bits-pilani.ac.in"
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement
$ git config --global user.name "SHELKE AKSHAY NANDKUMAR - 2022mt93331"
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement
$ mkdir abc-repo
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement
$ cd abc-repo/
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo
$ mkdir my_repository
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo
$ cd my_repository/
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository
$ echo "# xyz" >> README.md
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository
$ git init
Initialized empty Git repository in D:/IntoductionToDevops-Assignement/abc-repo/my_repository/.git/
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (master)
$ git commit -m "first commit"
[master (root-commit) 6cad0b8] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (master)
$ git branch -M main
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git remote add origin https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 253 bytes | 253.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$
```

GitHub Repository Created

ShelkeAkshay-2022mt93331/abc

+

github.com/ShelkeAkshay-2022mt93331/abc-repo

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ShelkeAkshay-2022mt93331 / abc-repo Public

1 0 0

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main 1 branch 0 tags

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ShelkeAkshay-2022mt93331 first commit 6cad0b8 2 minutes ago 1 commit

README.md first commit 2 minutes ago

README.md

xyz

No description, website, or topics provided.

[Readme](#)
 0 stars
 1 watching
 0 forks

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ii) Add Tow Directory and some raw code files to the repository

GIT Commands from local Git Bash

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ mkdir Tow  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ touch Tow/python_code_1.py  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ touch Tow/python_code_2.py  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git add Tow/  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (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:   Tow/python_code_1.py  
    new file:   Tow/python_code_2.py  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git commit -m "adding Tow directory and python code files"  
[main e1ca78a] adding Tow directory and python code files  
2 files changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 Tow/python_code_1.py  
create mode 100644 Tow/python_code_2.py  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git remote add origin https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git  
error: remote origin already exists.  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git push -u origin main  
Enumerating objects: 5, done.  
Counting objects: 100% (5/5), done.  
Delta compression using up to 8 threads  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (4/4), 394 bytes | 394.00 KiB/s, done.  
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0  
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git  
6cad0b8..e1ca78a  main -> main  
branch 'main' set up to track 'origin/main'.  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$
```

GIT Commands Screenshot from local Git Bash

MINGW64:/d/IntoductionToDevops-Assignement/abc-repo/my_repository

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ mkdir Tow
```

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ touch Tow/python_code_1.py
```

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ touch Tow/python_code_2.py
```

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git add Tow/
```

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (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:   Tow/python_code_1.py
    new file:   Tow/python_code_2.py
```

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git commit -m "adding Tow directory and python code files"
[main e1ca78a] adding Tow directory and python code files
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Tow/python_code_1.py
 create mode 100644 Tow/python_code_2.py
```

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git remote add origin https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
error: remote origin already exists.
```

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 394 bytes | 394.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
 6cad0b8..e1ca78a  main -> main
branch 'main' set up to track 'origin/main'.
```

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ |
```


Tow directory and python code files created in GitHub

abc-repo/Tow at main · ShelkeAkshay

github.com/ShelkeAkshay-2022mt93331/abc-repo/tree/main/Tow

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...

main

abc-repo / Tow /

Go to file

Add file

...

ShelkeAkshay-2022mt93331 adding Tow directory and python code files ...

2 minutes ago

History

..

python_code_1.py

adding Tow directory and python code files

2 minutes ago

python_code_2.py

adding Tow directory and python code files

2 minutes ago

[Give feedback](#)

iii) Move Code from One directory to Another Directory

GIT Commands from local Git Bash

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ ls
README.md  Tow/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ mkdir Tow_2

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git mv Tow/python_code_2.py Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (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)
        renamed:    Tow/python_code_2.py -> Tow_2/python_code_2.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git commit -m "move code file from one directory to another directory"
[main da897e9] move code file from one directory to another directory
1 file changed, 0 insertions(+), 0 deletions(-)
rename {Tow => Tow_2}/python_code_2.py (100%)

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 463 bytes | 463.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
    elca78a..da897e9  main -> main
branch 'main' set up to track 'origin/main'.

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$
```


GIT Commands Screenshot from local Git Bash

```
MINGW64:/d/IntoductionToDevops-Assignment/abc-repo/my_repository

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ ls
README.md  Tow/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ mkdir Tow_2

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git mv Tow/python_code_2.py Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (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)
        renamed:    Tow/python_code_2.py -> Tow_2/python_code_2.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git commit -m "move code file from one directory to another directory"
[main da897e9] move code file from one directory to another directory
1 file changed, 0 insertions(+), 0 deletions(-)
rename {Tow => Tow_2}/python_code_2.py (100%)

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 463 bytes | 463.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
   e1ca78a..da897e9  main -> main
branch 'main' set up to track 'origin/main'.

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ |
```

Moved code file from one directory to another in GitHub

The image displays three sequential screenshots of a GitHub repository named 'abc-repo' by user 'ShelkeAkshay-2022mt93331'. The repository is public and currently has 0 stars and 0 forks.

Top Screenshot: Shows the repository's main page. The 'main' branch is selected. A commit history table is visible:

File	Commit Message	Time Ago
Tow	move code file from one direct...	1 minute ago
Tow_2	move code file from one direct...	1 minute ago
README.md	first commit	18 minutes ago

The README.md file content is shown as 'xyz'.

Middle Screenshot: Shows the 'Tow' directory view. The commit history table is:

File	Commit Message	Time Ago
python_code_1.py	adding Tow directory and python code files	11 minutes ago

Bottom Screenshot: Shows the 'Tow_2' directory view. The commit history table is:

File	Commit Message	Time Ago
python_code_2.py	move code file from one directory to another directory	3 minutes ago

iv) Update one source code file and display the difference

GIT Commands from local Git Bash

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (main)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (main)
$ cd Tow

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository/Tow (main)
$ ls
python_code_1.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository/Tow (main)
$ vim python_code_1.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository/Tow (main)
$ git diff
warning: in the working copy of 'Tow/python_code_1.py', LF will be replaced by
CRLF the next time Git touches it
diff --git a/Tow/python_code_1.py b/Tow/python_code_1.py
index e69de29..6b4929c 100644
--- a/Tow/python_code_1.py
+++ b/Tow/python_code_1.py
@@ -0,0 +1 @@
+print("Introduction to Devops - Assignment GITHUB")

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository/Tow (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)
        modified:   python_code_1.py

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

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository/Tow (main)
$ git add python_code_1.py
warning: in the working copy of 'Tow/python_code_1.py', LF will be replaced by
CRLF the next time Git touches it

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository/Tow (main)
$ git commit -m "making changes in code file and displaying difference"
[main 9a6908b] making changes in code file and displaying difference
1 file changed, 1 insertion(+)

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository/Tow (main)
$ git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 472 bytes | 472.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
da897e9..9a6908b  main -> main
branch 'main' set up to track 'origin/main'.
```

Git Commands Screenshot from local Git Bash

```
MINGW64:/d/IntoductionToDevops-Assignment/abc-repo/my_repository/Tow

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository (main)
$ cd Tow

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository/Tow (main)
$ ls
python_code_1.py

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository/Tow (main)
$ vim python_code_1.py

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository/Tow (main)
$ git diff
warning: in the working copy of 'Tow/python_code_1.py', LF will be replaced by CRLF the next time Git touches it
diff --git a/Tow/python_code_1.py b/Tow/python_code_1.py
index e69de29..6b4929c 100644
--- a/Tow/python_code_1.py
+++ b/Tow/python_code_1.py
@@ -0,0 +1 @@
+print("Introduction to Devops - Assignment GITHUB")

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository/Tow (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)
        modified:   python_code_1.py

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

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository/Tow (main)
$ git add python_code_1.py
warning: in the working copy of 'Tow/python_code_1.py', LF will be replaced by CRLF the next time Git touches it

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository/Tow (main)
$ git commit -m "making changes in code file and displaying difference"
[main 9a6908b] making changes in code file and displaying difference
1 file changed, 1 insertion(+)

DELL@DESKTOP-UH6PTID MINGW64 /d/IntoductionToDevops-Assignment/abc-repo/my_repository/Tow (main)
$ git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 472 bytes | 472.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
da897e9..9a6908b  main -> main
branch 'main' set up to track 'origin/main'.
```

Updates in GitHub


abc-repo/python_code_1.py at m


+



← → ↻


github.com/ShelkeAkshay-2022mt93331/abc-repo/blob/main/Tow/pyt...


🔗 ☆ 🔒 ⚙️ 📄 S ⋮





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 main

[abc-repo](#) / [Tow](#) / [python_code_1.py](#) /  Jump to




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⋮

 [ShelkeAkshay-2022mt93331](#) making changes in code file an... Latest commit 9a6908b 1 minute ago  History

 1 contributor

1 lines (1 sloc) | 52 Bytes

[Raw](#) [Blame](#)   

1 `print("Introduction to Devops - Assignment GITHUB")`

[Give feedback](#)

v) Create a Branch

GIT Commands from local Git Bash

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (main)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (main)
$ git branch feature-akshay

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (main)
$ git checkout feature-akshay
Switched to branch 'feature-akshay'

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (feature-akshay)
$ mkdir Tow_3

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (feature-akshay)
$ touch Tow_3/python_code_3.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/  Tow_3/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (feature-akshay)
$ git add Tow_3

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (feature-akshay)
$ git commit -m "committing code file to feature branch"
[feature-akshay 6aed72e] committing code file to feature branch
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Tow_3/python_code_3.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-
repo/my_repository (feature-akshay)
$ git push -u origin feature-akshay
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% (4/4), 371 bytes | 371.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-akshay' on GitHub by visiting:
remote:   https://github.com/ShelkeAkshay-2022mt93331/abc-
repo/pull/new/feature-akshay
remote:
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
 * [new branch]      feature-akshay -> feature-akshay
branch 'feature-akshay' set up to track 'origin/feature-akshay'.
```

GIT Commands Screenshot from local Git Bash

```
MINGW64:/d/IntoductionToDevops-Assignement/abc-repo/my_repository
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git branch feature-akshay

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git checkout feature-akshay
Switched to branch 'feature-akshay'

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ touch Tow_3/python_code_3.py
touch: cannot touch 'Tow_3/python_code_3.py': No such file or directory

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ mkdir Tow_3

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ touch Tow_3/python_code_3.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/  Tow_3/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ git add Tow_3

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ git commit -m "committing code file to feature branch"
[feature-akshay 6aed72e] committing code file to feature branch
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Tow_3/python_code_3.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ git push -u origin feature-akshay
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% (4/4), 371 bytes | 371.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-akshay' on GitHub by visiting:
remote:   https://github.com/ShelkeAkshay-2022mt93331/abc-repo/pull/new/feature-akshay
remote:
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
 * [new branch]      feature-akshay -> feature-akshay
branch 'feature-akshay' set up to track 'origin/feature-akshay'.
```


Created Feature Branch in GitHub

ShelkeAkshay-2022mt93331/abc

github.com/ShelkeAkshay-2022mt93331/abc-repo/tree/feature-akshay

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Pin

Unwatch 1

Fork 0

Star 0

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

...

feature-akshay had recent pushes 2 minutes ago

Compare & pull request

feature-akshay

Go to file

Add file

<> Code

This branch is 1 commit ahead of main.

Contribute

ShelkeAkshay-2022mt93331 committ... 2 minutes ago 5

Tow	making changes in code file an...	8 minutes ago
Tow_2	move code file from one direct...	16 minutes ago
Tow_3	committing code file to feature ...	2 minutes ago
README.md	first commit	34 minutes ago

README.md

About

No description, website, or topics provided.

Readme

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

vi) Add some raw code to the branch

GIT Commands from local Git Bash

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ ls  
README.md  Tow/  Tow_2/  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git branch feature-akshay  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git checkout feature-akshay  
Switched to branch 'feature-akshay'  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ ls  
README.md  Tow/  Tow_2/  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ ls  
README.md  Tow/  Tow_2/  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ mkdir Tow_3  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ touch Tow_3/python_code_3.py  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ ls  
README.md  Tow/  Tow_2/  Tow_3/  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ git add Tow_3  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ git commit -m "committing code file to feature branch"  
[feature-akshay 6aed72e] committing code file to feature branch  
1 file changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 Tow_3/python_code_3.py  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ git push -u origin feature-akshay  
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% (4/4), 371 bytes | 371.00 KiB/s, done.  
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0  
remote: Resolving deltas: 100% (1/1), completed with 1 local object.  
remote:  
remote: Create a pull request for 'feature-akshay' on GitHub by visiting:  
remote:   https://github.com/ShelkeAkshay-2022mt93331/abc-  
repo/pull/new/feature-akshay  
remote:  
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git  
* [new branch]      feature-akshay -> feature-akshay  
branch 'feature-akshay' set up to track 'origin/feature-akshay'.
```

GIT Commands Screenshot from local Git Bash

```
MINGW64:/d/IntoductionToDevops-Assignement/abc-repo/my_repository
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git branch feature-akshay

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git checkout feature-akshay
Switched to branch 'feature-akshay'

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ touch Tow_3/python_code_3.py
touch: cannot touch 'Tow_3/python_code_3.py': No such file or directory

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ mkdir Tow_3

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ touch Tow_3/python_code_3.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ ls
README.md  Tow/  Tow_2/  Tow_3/

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ git add Tow_3

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ git commit -m "committing code file to feature branch"
[feature-akshay 6aed72e] committing code file to feature branch
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Tow_3/python_code_3.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ git push -u origin feature-akshay
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% (4/4), 371 bytes | 371.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-akshay' on GitHub by visiting:
remote:   https://github.com/ShelkeAkshay-2022mt93331/abc-repo/pull/new/feature-akshay
remote:
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
 * [new branch]      feature-akshay -> feature-akshay
branch 'feature-akshay' set up to track 'origin/feature-akshay'.
```

Code files added to feature branch in GitHub

The screenshot shows the GitHub interface for a repository named 'abc-repo' by user 'ShelkeAkshay-2022mt93331'. The browser address bar shows the URL 'github.com/ShelkeAkshay-2022mt93331/abc-repo/tree/feature-akshay'. The repository is public and has 0 stars, 1 watcher, and 0 forks. The 'feature-akshay' branch is selected, and it is 1 commit ahead of the 'main' branch. A yellow banner indicates recent pushes to the 'feature-akshay' branch 2 minutes ago, with a 'Compare & pull request' button. Below this, a table lists recent commits:

Commit	Author	Message	Time
Tow	ShelkeAkshay-2022mt93331	making changes in code file an...	8 minutes ago
Tow_2	ShelkeAkshay-2022mt93331	move code file from one direct...	16 minutes ago
Tow_3	ShelkeAkshay-2022mt93331	committing code file to feature ...	2 minutes ago
README.md	ShelkeAkshay-2022mt93331	first commit	34 minutes ago

Below the commit list, the 'README.md' file is shown with an edit icon. On the right side, the 'About' section states 'No description, website, or topics provided.' Below this are sections for 'Releases' (No releases published) and 'Packages' (No packages published).

The screenshot shows the GitHub interface for the same repository, but now viewing the 'Tow_3' directory. The browser address bar shows the URL 'github.com/ShelkeAkshay-2022mt93331/abc-repo/tree/feature-akshay.../Tow_3'. The repository is still public. The 'feature-akshay' branch is selected, and it is 1 commit ahead of the 'main' branch. Below the commit list, the 'Tow_3' directory is shown with a table of recent commits:

Commit	Author	Message	Time
python_code_3.py	ShelkeAkshay-2022mt93331	committing code file to feature branch	3 minutes ago

Below the commit list, the 'python_code_3.py' file is shown with an edit icon. The right side of the page shows the 'About' section and sections for 'Releases' and 'Packages'.

vii) Merge the Branch with Main line

GIT Commands from local Git Bash

```
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ git status  
On branch feature-akshay  
Your branch is up to date with 'origin/feature-akshay'.  
  
nothing to commit, working tree clean  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (feature-akshay)  
$ git checkout main  
Switched to branch 'main'  
Your branch is up to date with 'origin/main'.  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git merge feature-akshay  
Updating 9a6908b..6aed72e  
Fast-forward  
  Tow_3/python_code_3.py | 0  
  1 file changed, 0 insertions(+), 0 deletions(-)  
  create mode 100644 Tow_3/python_code_3.py  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git push -u origin main  
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0  
To https://github.com/She1keAkshay-2022mt93331/abc-repo.git  
  9a6908b..6aed72e  main -> main  
branch 'main' set up to track 'origin/main'.  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$ git status  
On branch main  
Your branch is up to date with 'origin/main'.  
  
nothing to commit, working tree clean  
  
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignment/abc-  
repo/my_repository (main)  
$
```

GIT Commands Screenshot from local Git Bash

```
MINGW64:/d/IntoductionToDevops-Assignement/abc-repo/my_repository
DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ git status
On branch feature-akshay
Your branch is up to date with 'origin/feature-akshay'.

nothing to commit, working tree clean

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (feature-akshay)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git merge feature-akshay
Updating 9a6908b..6aed72e
Fast-forward
 Tow_3/python_code_3.py | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Tow_3/python_code_3.py

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git push -u origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShelkeAkshay-2022mt93331/abc-repo.git
   9a6908b..6aed72e  main -> main
branch 'main' set up to track 'origin/main'.

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

DELL@DESKTOP-UH6PT1D MINGW64 /d/IntoductionToDevops-Assignement/abc-repo/my_repository (main)
$ |
```


Feature branch merged to master

Commits · ShelkeAkshay-2022mt93331

github.com/ShelkeAkshay-2022mt93331/abc-repo/commits/main

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<> Code

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...

main

Commits on Mar 5, 2023

committing code file to feature branch

ShelkeAkshay-2022mt93331 committed 7 minutes ago

6aed72e

<>

making changes in code file and displaying difference

ShelkeAkshay-2022mt93331 committed 13 minutes ago

9a6908b

<>

move code file from one directory to another directory

ShelkeAkshay-2022mt93331 committed 21 minutes ago

da897e9

<>

adding Tow directory and python code files

ShelkeAkshay-2022mt93331 committed 29 minutes ago

e1ca78a

<>

first commit

ShelkeAkshay-2022mt93331 committed 39 minutes ago

6cad0b8

<>

Summary:

Advantages of moving from Centralized Source Code to Distributed Version Control

1.	Distributed Version Control System has the biggest advantage in that it allows you to work offline and gives flexibility. You have the entire history of the code in your own hard drive, so all the changes you will be making in your own server or to your own repository which doesn't require an internet connection, but this is not in the case of Centralized Source Code.
2.	Distributed Version Control System is faster than Centralized Source Code because you don't need to communicate with the remote server for every command. You do everything locally which gives you the benefit to work faster than Centralized Source Code.
3.	Working on branches is easy in Distributed Version Control System. Every developer has an entire history of the code in Distributed Version Control System, so developers can share their changes before merging all the 'sets of changes to the remote server. In Centralized Source Code it's difficult and time-consuming to work on branches because it requires to communicate with the server directly.
4.	If the main server goes down or it crashes in Distributed Version Control System, you can still get the backup or entire history of the code from your local repository or server where the full revision of the code is already saved. This is not in the case of Centralized Source Code, there is just a single remote server that has entire code history.
5.	Merge conflicts with other developer's code are less in Distributed Version Control System. Because every developer work on their own piece of code. Merge conflicts are more in Centralized Source Code in comparison to Distributed Version Control System.
6.	In Distributed Version Control System, sometimes developers take the advantage of having the entire history of the code and they may work for too long in isolation which is not a good thing. This is not in the case of Centralized Source Code.

.....

THANK YOU !!

Student ID	2022MT93331
Student Name	SHELKE AKSHAY NANDKUMAR
Student email ID	2022mt93331@wilp.bits-pilani.ac.in
GitHub Public profile	https://github.com/ShelkeAkshay-2022mt93331
GitHub Solution Repository	https://github.com/ShelkeAkshay-2022mt93331/abc-repo