How to clone repository on the local machine

1. Open Git Bash
2. Create a folder or go to a folder where you want to store project.

For Example. $ cd Trupti\_UMGC/GroupProject

1. Use git clone <url copied from the git hub> =🡺command to copy project from remote repository to local repository on your PC.
2. Import that project into IDE. Work on your task in IDE.

1. Go to git Bash….Command $git add <filename or folderName> 🡺 This command will add your changes into staging area.
2. Check status using command 🡺 git status 🡺 this will you show the status of your file.
3. $ git commit -am “ short description about changes” 🡺 This will commit changes to local repository
4. $ git status
5. $ git push 🡺 This will commit changes to remote repository
6. **//Created separate branch for team member**
7. **$ git branch –list**
8. **$ git checkout TTBranch ( switch to branch)**

**$ git checkout -b TTBranch2 ( create and switch to new branch)**

**Create new file $ git touch style.css ( enter some data)**

**$ git status**

**$ git add**

**$ git commit -m “message”**

trupt@Trupti MINGW64 /c/BookLibrary/book\_library\_project (main)

**$ git checkout -b prasadBranch**

Switched to a new branch 'prasadBranch'

trupt@Trupti MINGW64 /c/BookLibrary/book\_library\_project (prasadBranch)

**$ git push -u origin prasadBranch**

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

remote:

remote: Create a pull request for 'prasadBranch' on GitHub by visiting:

remote: https://github.com/Trupti-GitRepository/book\_library\_project/pull/new/prasadBranch

remote:

To https://github.com/Trupti-GitRepository/book\_library\_project.git

\* [new branch] prasadBranch -> prasadBranch

Branch 'prasadBranch' set up to track remote branch 'prasadBranch' from 'origin'.

1. Add, commit, push changes at the branch repository. Inform team members about it. Pull the changes from the branch remote repository. Verify changes. Do integration testing. Once every think is okay. merge changes to main branch.

Switch between branch repository or main 🡺

**$ git checkout trupti-checkout**

**$ git checkout main**

1. Merge changes to the main from branch :

**$ git merge trupti-checkout**

1. Delete branch repository. It is good to create and delete branch from separate works. Should be present in that branch

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

**$ git checkout -d trupti-checkout**

Prasad@Trupti-Prasad MINGW64 ~

$ git clone https://github.com/Trupti-GitRepository/book\_library\_project.git

Cloning into 'book\_library\_project'...

remote: Enumerating objects: 4, done.

remote: Counting objects: 100% (4/4), done.

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

remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (4/4), done.

Prasad@Trupti-Prasad MINGW64 ~

$ pwd

/c/Users/Prasad

Prasad@Trupti-Prasad MINGW64 ~

$ cd C:\Users\Prasad\Trupti\_UMGC

bash: cd: C:UsersPrasadTrupti\_UMGC: No such file or directory

Prasad@Trupti-Prasad MINGW64 ~

$ cd Trupti\_UMGC

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC

$ mkdir book\_library\_project

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC

$ ocd book\_library\_project/

bash: ocd: command not found

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC

$ cd book\_library\_project/

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project

$ git clone https://github.com/Trupti-GitRepository/book\_library\_project.git

Cloning into 'book\_library\_project'...

remote: Enumerating objects: 4, done.

remote: Counting objects: 100% (4/4), done.

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

remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (4/4), done.

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project

$ git status

fatal: not a git repository (or any of the parent directories): .git

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project

$ cd book\_library\_project/

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (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)

cmsc495.groupproject/

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

**// add files to staging area**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git add cmsc495.groupproject/

**//commit changes to local repository , Do not forget to add discription**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git commit -am"Test Commit"

[main 68369fd] Test Commit

8 files changed, 88 insertions(+)

create mode 100644 cmsc495.groupproject/.classpath

create mode 100644 cmsc495.groupproject/.project

create mode 100644 cmsc495.groupproject/.settings/org.eclipse.jdt.core.prefs

create mode 100644 cmsc495.groupproject/.settings/org.eclipse.m2e.core.prefs

create mode 100644 cmsc495.groupproject/pom.xml

create mode 100644 cmsc495.groupproject/target/maven-archiver/pom.properties

create mode 100644 cmsc495.groupproject/target/maven-status/maven-compiler-plugin/compile/default-compile/inputFiles.lst

create mode 100644 cmsc495.groupproject/target/maven-status/maven-compiler-plugin/testCompile/default-testCompile/inputFiles.lst

**// Push local repository to remote repository**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git push

Enumerating objects: 19, done.

Counting objects: 100% (19/19), done.

Delta compression using up to 4 threads

Compressing objects: 100% (12/12), done.

Writing objects: 100% (18/18), 2.15 KiB | 275.00 KiB/s, done.

Total 18 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/Trupti-GitRepository/book\_library\_project.git

70478fa..68369fd main -> main

**//check status**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git status

On branch main

Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (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: cmsc495.groupproject/.classpath

Untracked files:

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

cmsc495.groupproject/.gitignore

cmsc495.groupproject/src/

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

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git add^C

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git add ^C

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git add cmsc495.groupproject/src/

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git commit

[main 75be521] added first test class:wq :wq

1 file changed, 10 insertions(+)

create mode 100644 cmsc495.groupproject/src/main/java/cmsc495/groupproject/Test.java

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git push

Enumerating objects: 11, done.

Counting objects: 100% (11/11), done.

Delta compression using up to 4 threads

Compressing objects: 100% (4/4), done.

Writing objects: 100% (9/9), 675 bytes | 168.00 KiB/s, done.

Total 9 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

To https://github.com/Trupti-GitRepository/book\_library\_project.git

68369fd..75be521 main -> main

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (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: cmsc495.groupproject/.classpath

Untracked files:

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

cmsc495.groupproject/.gitignore

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

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ ^C

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (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: cmsc495.groupproject/.classpath

Untracked files:

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

Project-Documents/

cmsc495.groupproject/.gitignore

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

**// Added new folder in staging area**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git add Project-Documents/

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

**// Commit changes to local repository**

$ git commit -am"Added project document"

[main 49788a2] Added project document

2 files changed, 5 insertions(+), 1 deletion(-)

create mode 100644 Project-Documents/Checklist.docx

**//Push local repository changes to remote repository**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git push

Enumerating objects: 9, done.

Counting objects: 100% (9/9), done.

Delta compression using up to 4 threads

Compressing objects: 100% (5/5), done.

Writing objects: 100% (6/6), 1.02 MiB | 775.00 KiB/s, done.

Total 6 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

To https://github.com/Trupti-GitRepository/book\_library\_project.git

75be521..49788a2 main -> main

**//Created separate branch for team member**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git checkout -b main

fatal: A branch named 'main' already exists.

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git checkout -b trupti-checkout

Switched to a new branch 'trupti-checkout'

**//Changes push to remote repository branch**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git push -u origin

fatal: The current branch trupti-checkout has no upstream branch.

To push the current branch and set the remote as upstream, use

git push --set-upstream origin trupti-checkout

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git push -u origin trupti-checkout

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

remote:

remote: Create a pull request for 'trupti-checkout' on GitHub by visiting:

remote: https://github.com/Trupti-GitRepository/book\_library\_project/pull/new/trupti-checkout

remote:

To https://github.com/Trupti-GitRepository/book\_library\_project.git

\* [new branch] trupti-checkout -> trupti-checkout

Branch 'trupti-checkout' set up to track remote branch 'trupti-checkout' from 'origin'.

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git status

On branch trupti-checkout

Your branch is up to date with 'origin/trupti-checkout'.

Untracked files:

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

Project-Documents/Git\_Commands.docx

cmsc495.groupproject/.gitignore

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

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git add ^C

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git add Project-Documents/Git\_Commands.docx

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git status

On branch trupti-checkout

Your branch is up to date with 'origin/trupti-checkout'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: Project-Documents/Git\_Commands.docx

Untracked files:

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

cmsc495.groupproject/.gitignore

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git commit -am " Git-Commands document added"

[trupti-checkout e0a3bce] Git-Commands document added

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 Project-Documents/Git\_Commands.docx

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git status

On branch trupti-checkout

Your branch is ahead of 'origin/trupti-checkout' by 1 commit.

(use "git push" to publish your local commits)

Untracked files:

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

cmsc495.groupproject/.gitignore

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

**//pushing changes to remote branch** (trupti-checkout)

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git push

Enumerating objects: 6, done.

Counting objects: 100% (6/6), done.

Delta compression using up to 4 threads

Compressing objects: 100% (4/4), done.

Writing objects: 100% (4/4), 18.79 KiB | 6.26 MiB/s, done.

Total 4 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/Trupti-GitRepository/book\_library\_project.git

49788a2..e0a3bce trupti-checkout -> trupti-checkout

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git status

On branch trupti-checkout

Your branch is up to date with 'origin/trupti-checkout'.

Untracked files:

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

cmsc495.groupproject/.gitignore

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

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git checkout main

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

**// Pull changes from remote repository**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git pull

Already up to date.

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git checkout trupti-checkout

Switched to branch 'trupti-checkout'

Your branch is up to date with 'origin/trupti-checkout'.

**//Switching from “Trupti-checkout” branch to “main” branch**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git checkout main

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git merge trupti-checkout

FETCH\_HEAD HEAD ORIG\_HEAD main origin/HEAD origin/main origin/trupti-checkout trupti-checkout

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git merge trupti-checkout

FETCH\_HEAD HEAD ORIG\_HEAD main origin/HEAD origin/main origin/trupti-checkout trupti-checkout

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git merge trupti-checkout

FETCH\_HEAD HEAD ORIG\_HEAD main origin/HEAD origin/main origin/trupti-checkout trupti-checkout

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git merge trupti-checkout

FETCH\_HEAD HEAD ORIG\_HEAD main origin/HEAD origin/main origin/trupti-checkout trupti-checkout

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git merge trupti-checkout

FETCH\_HEAD HEAD ORIG\_HEAD main origin/HEAD origin/main origin/trupti-checkout trupti-checkout

**//Merging changes from branch to main**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git merge trupti-checkout

Updating 49788a2..e0a3bce

Fast-forward

Project-Documents/Git\_Commands.docx | Bin 0 -> 21635 bytes

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 Project-Documents/Git\_Commands.docx

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git push

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

To https://github.com/Trupti-GitRepository/book\_library\_project.git

49788a2..e0a3bce main -> main

**//Switch to Trupti-checkout branch**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)

$ git checkout trupti-checkout

Switched to branch 'trupti-checkout'

Your branch is up to date with 'origin/trupti-checkout'.

**//Delete Branch**

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git checkout -d trupti-checkout

FETCH\_HEAD HEAD ORIG\_HEAD main origin/HEAD origin/main origin/trupti-checkout trupti-checkout

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (trupti-checkout)

$ git checkout -d trupti-checkout

HEAD is now at e0a3bce Git-Commands document added

Your branch is up to date with 'origin/trupti-checkout'.

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project ((e0a3bce...))

**// Switch to main branch**

$ git checkout main

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

Prasad@Trupti-Prasad MINGW64 ~/Trupti\_UMGC/book\_library\_project/book\_library\_project (main)