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

1. Use git clone url =🡺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**

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 truptiswork

error: pathspec 'truptiswork' did not match any file(s) known to git

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)

$