General Instructions: This activity is expected to take approximately 1.5 hours. Please ensure careful adherence to the provided instructions.

Objective:

• This exercise focuses on using Git in a local environment without remote repositories. You'll practice setting up a local Git repository, working with branches, managing commits, and resolving conflicts locally.

Problem Statement: You are working on a project locally, and need to use Git for version control. Your task is to initialize a Git repository, implement features using branches, manage commits, and handle conflicts that may arise when merging different branches

- 1. Open Microsoft Word or any word processing software that supports document creation.
- 2. Start a new document.
- 3. Copy and paste the tasks for Machine Problem #1 into the document. Ensure proper formatting and readability.
- 4. Insert your source code into the document. You can either copy and paste it directly or take a screenshot of the code and insert the image

into the document.

- 5. Capture screenshots of the output of your code execution. Make sure the screenshots are clear and readable.
- 6. Insert the screenshots into the document. You can either directly insert the images or embed them as links, depending on your preference. and the document's requirements
- 7. Arrange the content in a logical and organized manner. You may want to use headings, subheadings, and bullet points to make the document easy to follow.
- 8. Review the document for any errors or formatting issues. Make necessary adjustments to ensure clarity and correctness. 9. Save the document as a PDF file. Most ward processing software offers an option to save or export documents as PDFs. Choose this

option and follow the prompts to save your document in PDF format.

10. Once saved, review the PDF file to ensure that all content, including instructions, source code, and screenshots, is accurately captured and presented

11. If everything looks good, your Word document containing instructions, source code, and screenshots, saved as a PDF file, is ready for submission or sharing... Please follow the filename format (minus 10 for the wrong filename) MP1<Lastname>.pdf Example: MP1Mansueto.pdf Scenario: You're working on a personal project named "<YourLastname> local project and want to experiment with new features without affecting the main codebase Example Mansueto local project Note: Ensure Git is installed on your machine. Set up your Git usemame and email (if not already configuredi Create a directory called Your Lastname local project, navigate into it, and initialize it as a Git repository Multiple commits reflecting changes in different branches Evidence of conflict resolution during branch merging (optional) A Git tag-marking version v1.0 (optional). Tasks: 1. Create a new branch: Create a new branch named "feature_x" to isolate your experimental changes 2. Stage changes:

Make modifications to your project files.

3. Commit changes:

Stage the changes using the gat add command.

Commit the staged changes to your local repository using the git commit command. Provide a clear and concise commit message.

4. Switch back to the main branch:

Use the git checkout command to switch back to the main branch.

5. Merge changes from the feature branch:

Use the git merge command to merge the changes from the feature x branch into the main branch. Resolve any merge conflicts

that may arise

6. Viewing the Commit History:

Use Git commands to view the commit history and ensure that all commits are in place.

7. Tagging Versions (Optional):

After completing the merge, use the it tag command to create a tag named v1.0 to mark the first version of your project.

```
git config globa user, name "Angelica Andres"
atal: not in a git directory
enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~
git config --global user,name "Angelica Andres"
rror: key does not contain a section: user,name
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~
git config --global user.name "Angelica Andres"
 enovo Ideapad 3200DESKTOP-66TTL86 MINGW64 ~
git config --global user.email "angel.ofu2019@gmail.com"
enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~
mkdir Angelica_local_project
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~
cd Angelica_local_project
Signate init
Initialized empty Git repository in C:/Users/Lenovo Ideapad 320/Angelica_local_project/.git/
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
irstTxtFile.txt
                               DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
 git add FirstTxtFile.txt
                  pad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
n branch master
o commits yet
changes to be committed:
    (use "git rm --cached <file>..." to unstage)
        new file: FirstTxtFile.txt
.enovo Ideapad 3208DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
§ git commit -m "First Text File in Git"
[master (root-commit) 30c6e9e] First Text File in Git
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 FirstTxtFile.txt
```

MINGW64:/c/Users/Lenovo Ideapad 320/Angelica_local_project

```
deapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
6 git status
On branch master
nothing to commit, working tree clean
enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master) git checkout -b feature_x witched to a new branch 'feature_x'
enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (feature_x)
git add .
     Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (feature_x)
git branch
master
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (feature_x)
 novo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (feature_x)
irstTxtFile.txt SecondTxtFile.txt
        Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (feature_x)
git add SecondTxtFile.txt
     o Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (feature_x)
git status
n branch feature_x
enovo Ideapad 3200DESKTOP-6GTTL86 MINGW64 ~/Angelica_local_project (feature_x)
6 git commit -m "Second Text File"
[feature_x 0fb73b7] Second Text File
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 SecondTxtFile.txt
enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (feature_x)
git checkout master
witched to branch 'master'
     o Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
git merge feature_x
pdating 30c6e9e..0fb73b7
```

```
o Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
$ git merge feature_x
Updating 30c6e9e..0fb73b7
 Fast-forward
SecondTxtFile.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 SecondTxtFile.txt
        Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
 git tag v1.0
         Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
Sgit log --oneline
Ofb73b7 (HEAD -> master, tag: v1.0, feature_x) Second Text File
30c6e9e First Text File in Git
 Lenovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
$ git checkout -b ThirdBranch
Switched to a new branch 'ThirdBranch'
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
$ git add .
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
$ ls
FirstTxtFile.txt SecondTxtFile.txt
$ 1s
 rrstTxtFile.txt SecondTxtFile.txt ThirdTxtFile.txt
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
 git add ThirdTxtFile.txt
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
$ git status
 On branch ThirdBranch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
new file: ThirdTxtFile.txt
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
```

```
enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
$ git checkout master
Switched to branch 'master'
           ThirdTxtFile.txt
Lenovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master) $ git merge feature_x Already up to date.
Lenovo Ideapad 3200DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
$ git checkout ThirdBranch
 Switched to branch 'ThirdBranch'
A ThirdTxtFile.txt
   enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
S git commit -m "Third Text File"
[ThirdBranch 2322496] Third Text File
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ThirdTxtFile.txt
  enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
$ git status
On branch ThirdBranch
nothing to commit, working tree clean
   enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
$ git checkout master
Switched to branch 'master'
         Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
  git merge ThirdBranch
 Jpdating Ofb73b7..2322496
 opdating 010/30/..2322490
Fast-forward
ThirdTxtFile.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ThirdTxtFile.txt
Lenovo Ideapad 3208DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
$ git log --oonline
fatal: unrecognized argument: --oonline
         Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
  git log --oneline
    22496 (HEAD -> master, ThirdBranch) Third Text File
b73b7 (tag: v1.0, feature_x) Second Text File
```

NINGW64:/c/Users/Lenovo Ideapad 320/Angelica_local_project

```
enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
 git checkout master
witched to branch 'master'
           ThirdTxtFile.txt
Lenovo Ideapad 3200DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
$ git merge feature_x
Already up to date.
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
 git checkout ThirdBranch
witched to branch 'ThirdBranch'
ThirdTxtFile.txt
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
)
$ git commit -m "Third Text File"
[ThirdBranch 2322496] Third Text File
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ThirdTxtFile.txt
$ git status
On branch ThirdBranch
nothing to commit, working tree clean
 enovo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (ThirdBranch
$ git checkout master
 witched to branch 'master'
      vo Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
$ git merge ThirdBranch
Updating Ofb73b7..2322496
 pdating Orb.307..2322490
- Tast-forward
ThirdTxtFile.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ThirdTxtFile.txt
 git log --oonline
fatal: unrecognized argument: --oonline
         Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
  git log --oneline
322496 (HEAD -> master, ThirdBranch) Third Text File
fb73b7 (tag: v1.0, feature_x) Second Text File
```

```
Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
log --oneline
6 (HEAD -> master, ThirdBranch) Third Text File
7 (tag: v1.0, feature_x) Second Text File
e First Text File in Git

Ideapad 320@DESKTOP-66TTL86 MINGW64 ~/Angelica_local_project (master)
y all 5028 possibilities? (y or n)
```