

Experiment -3.1

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Branch: CSE(DEVOPS)

Semester: 4TH

Subject Name: GIT AND GITHUB

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Section/Group: 22BCD-1/A

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Subject Code: 22CSH-293

1. Aim/Overview of the practical:. Compare the changes in the Git Repository.

2. Software used: Git Bash and Github.

3. Hardware Used: Computer system.

4. Steps for experiment:

1. Create a file on local device and open that folder with Git Bash.
2. Create a repository on Github with Exp8 name and copy the http link.
3. Now open the file “file.txt” using “vi filename” and edit the file.

```
MINGW64~/Users/sneha/OneDrive/Desktop/exp8
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git clone https://github.com/Sneha2003m/exp8.git
Cloning into 'exp8'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ vi file.txt

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git add .
warning: adding embedded git repository: OneDrive/Desktop/exp8/exp8
```

4. Now add and commit the file using “git add .” and “git commit -m”message””.

MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git commit -m"1stfile"
[main 022044f] 1stfile
2 files changed, 2 insertions(+)
create mode 160000 OneDrive/Desktop/exp8/exp8
create mode 100644 OneDrive/Desktop/exp8/file.txt
```

5. Now open the file “file2.txt” using “vi filename” and edit the file.

MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git commit -m"1stfile"
[main 022044f] 1stfile
2 files changed, 2 insertions(+)
create mode 160000 OneDrive/Desktop/exp8/exp8
create mode 100644 OneDrive/Desktop/exp8/file.txt
```

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ vi file2.txt
```

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git add .
```

MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8

```
sneha mehrotra
22bdo10048
this is exp 8
```

```
~
~
~
~
```

6. Now add and commit this file.

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git add .
```

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git commit -m"2ndfile"
[main cb73d3d] 2ndfile
1 file changed, 3 insertions(+)
create mode 100644 OneDrive/Desktop/exp8/file2.txt
```

6. Now show the git log and draw git diff using “git diff hash1 hash2”

```
MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git log
commit cb73d3dd3fdd425f66dc7d389c65ce593eefa9cf (HEAD -> main)
Author: sneha <sneha.mehrotra1111@gmail.com>
Date: Tue Apr 2 22:06:56 2024 +0530

    2ndfile

commit 022044ffa2562f1c7a1744dbabbdd3da158e3753
Author: sneha <sneha.mehrotra1111@gmail.com>
Date: Tue Apr 2 22:05:34 2024 +0530

    1stfile
```

```
MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git diff cb73d3d 022044f
diff --git a/OneDrive/Desktop/exp8/file2.txt b/OneDrive/Desktop/exp8/file2.txt
deleted file mode 100644
index 7fc082f..0000000
--- a/OneDrive/Desktop/exp8/file2.txt
+++ /dev/null
@@ -1,3 +0,0 @@
-sneha mehrotra
-22bdo10048
-this is exp 8
```

7. Now edit the file and don't add this file to staging area and use git diff.

```
MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8
this is exp 8
sneha Mehrotra
~
~
~
~
~
~
```

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ vi file.txt

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git diff file.txt file2.txt
diff --git a/OneDrive/Desktop/exp8/file.txt b/OneDrive/Desktop/exp8/file.txt
index 9526ef7..cfc3c62 100644
--- a/OneDrive/Desktop/exp8/file.txt
+++ b/OneDrive/Desktop/exp8/file.txt
@@ -1,2 @@
 this is exp 8
sneha Mehrotra
```

8. Now create a branch using “git branch nope” or “git checkout -b nope”.

9. Now edit file and add it to staging area and commit this file using “git add .” and “git commit -m”message””.

```
MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git checkout -b nope
fatal: a branch named 'nope' already exists

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ vi file.txt

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git add .

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
$ git commit -m"branch commit"
[main 811f587] branch commit
1 file changed, 2 insertions(+)
```

MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8

```
this is exp 8  
sneha Mehrotra  
22bcd1
```

```
~  
~  
~  
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~  
~  
~  
~  
~  
~
```

9. Now Move to main branch by “git checkout main” and run the git diff command .

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)  
$ git checkout main  
Already on 'main'  
D      OneDrive/Desktop/exp6/DAA_Prac  
D      OneDrive/Desktop/exp6/abc.txt  
Your branch is ahead of 're2/main' by 11 commits.  
(use "git push" to publish your local commits)
```

MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp8 (main)
diff --git a/OneDrive/Desktop/exp8/exp8 b/OneDrive/Desktop/exp8/exp8
deleted file mode 160000
index 6bb9465..0000000
--- a/OneDrive/Desktop/exp8/exp8
+++ /dev/null
@@ -1,0,0 @@
-Subproject commit 6bb946569e40834786e192b7ed429b26773b3b3a
diff --git a/OneDrive/Desktop/exp8/file.txt b/OneDrive/Desktop/exp8/file.txt
deleted file mode 100644
index b20d947..0000000
--- a/OneDrive/Desktop/exp8/file.txt
+++ /dev/null
@@ -1,3,0,0 @@
-this is exp 8
-sneha Mehrotra
-22bcd1
diff --git a/OneDrive/Desktop/exp8/file2.txt b/OneDrive/Desktop/exp8/file2.txt
deleted file mode 100644
index 7fc082f..0000000
--- a/OneDrive/Desktop/exp8/file2.txt
+++ /dev/null
@@ -1,3,0,0 @@
-sneha mehrotra
diff --git a/OneDrive/Desktop/exp8/exp8 b/OneDrive/Desktop/exp8/exp8
deleted file mode 160000
index 6bb9465..0000000
--- a/OneDrive/Desktop/exp8/exp8
+++ /dev/null
@@ -1,0,0 @@
-Subproject commit 6bb946569e40834786e192b7ed429b26773b3b3a
diff --git a/OneDrive/Desktop/exp8/file.txt b/OneDrive/Desktop/exp8/file.txt
deleted file mode 100644
index b20d947..0000000
--- a/OneDrive/Desktop/exp8/file.txt
+++ /dev/null
@@ -1,3,0,0 @@
-this is exp 8
```

MINGW64/c:/Users/sneha/OneDrive/Desktop/exp8

```
-this is exp 8
-sneha Mehrotra
-22bcd1
diff --git a/OneDrive/Desktop/exp8/file2.txt b/OneDrive/Desktop/exp8/file2.txt
deleted file mode 100644
index 7fc082f..0000000
--- a/OneDrive/Desktop/exp8/file2.txt
+++ /dev/null
@@ -1,3,0,0 @@
-sneha mehrotra
-22bdo10048
-this is exp 8
:...skipping...
diff --git a/OneDrive/Desktop/exp8/exp8 b/OneDrive/Desktop/exp8/exp8
deleted file mode 160000
index 6bb9465..0000000
--- a/OneDrive/Desktop/exp8/exp8
+++ /dev/null
@@ -1,0,0 @@
-Subproject commit 6bb946569e40834786e192b7ed429b26773b3b3a
diff --git a/OneDrive/Desktop/exp8/file.txt b/OneDrive/Desktop/exp8/file.txt
deleted file mode 100644
index b20d947..0000000
--- a/OneDrive/Desktop/exp8/file.txt
+++ /dev/null
@@ -1,3,0,0 @@
-this is exp 8
-sneha Mehrotra
-22bcd1
diff --git a/OneDrive/Desktop/exp8/file2.txt b/OneDrive/Desktop/exp8/file2.txt
deleted file mode 100644
index 7fc082f..0000000
--- a/OneDrive/Desktop/exp8/file2.txt
+++ /dev/null
@@ -1,3,0,0 @@
-sneha mehrotra
-22bdo10048
-this is exp 8
~
```

5. Result/Output/Writing Summary:

In this experiment we have learn about diff and associated commands with git diff.

Learning outcomes (What I have learnt):

1. Learnt the difference between git merge and pull request.
2. Learnt how to make the merge
3. Learnt about type of merging.
4. Learnt about merge conflict.
5. Also learnt about ort merging.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			