**Name:Komal Mukesh More**

**Roll no:78**

**Assignment no:**

**Title:Demonstrate the use of git diff command.**

**---------------------------------------------------------------------------------------------------------**

**Scenerio1: Track the changes that have not been staged.**

comp@com135 MINGW64 ~ (master)

$ cd Oldagehomemanagement

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ vi logout.html

comp@com135 MINGW64 ~/Oldagehomemanagement (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)

logout.html

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

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git diff

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ ls

README.md about.html contact.html home.html home.txt logout.html newfile.txt

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ vi home.html

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git diff

warning: in the working copy of 'home.html', LF will be replaced by CRLF the next time Git touches it

**diff --git a/home.html b/home.html**

**index e69de29..d3ae4af 100644**

**--- a/home.html**

**+++ b/home.html**

@@ -0,0 +1,2 @@

+<html></html>

+<head>this is new file</head>

**Scenerio2: Track the changes that have staged but not committed:**

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git add .

warning: in the working copy of 'home.html', LF will be replaced by CRLF the next time Git touches it

warning: in the working copy of 'logout.html', LF will be replaced by CRLF the next time Git touches it

comp@com135 MINGW64 ~/Oldagehomemanagement (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)

modified: home.html

new file: logout.html

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git diff --staged

**diff --git a/home.html b/home.html**

**index e69de29..d3ae4af 100644**

**--- a/home.html**

**+++ b/home.html**

@@ -0,0 +1,2 @@

+<html></html>

+<head>this is new file</head>

**diff --git a/logout.html b/logout.html**

**new file mode 100644**

**index 0000000..37df368**

**--- /dev/null**

**+++ b/logout.html**

@@ -0,0 +1,3 @@

+i am komal more i am 21 yr old i have completed bca from imr clg

+<html><head> this is new file</head>

+</html>

**Scenerio3: Track the changes after committing a file:**

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git commit -m "logout file changed"

[main ea0d7a5] logout file changed

2 files changed, 5 insertions(+)

create mode 100644 logout.html

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ vi home.html

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git diff HEAD

warning: in the working copy of 'home.html', LF will be replaced by CRLF the next time Git touches it

**diff --git a/home.html b/home.html**

**index d3ae4af..5947dfa 100644**

**--- a/home.html**

**+++ b/home.html**

@@ -1,2 +1,5 @@

<html></html>

<head>this is new file</head>

+<body>

+ <h1>home page</h1>

+</body>

**Scenario4: Track the changes between two commits:**

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git commit -m "again logout file changed"

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

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

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: home.html

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

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git add .

warning: in the working copy of 'home.html', LF will be replaced by CRLF the next time Git touches it

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git commit -m "again logout file changed"

[main ab29085] again logout file changed

1 file changed, 3 insertions(+)

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git log

commit ab2908531375554099cc2f63789d54957ef555e8 (HEAD -> main)

Author: Pavanpatil973 <papaviii973@gmail.com>

Date: Wed Apr 3 14:06:34 2024 +0530

again logout file changed

commit ea0d7a56d417c316e6ffcbb2f5d3102a31d7f888

Author: Pavanpatil973 <papaviii973@gmail.com>

Date: Wed Apr 3 14:00:51 2024 +0530

logout file changed

commit 407417e76bfe84ca74e963e80d84acf6bf82c89b (origin/main, origin/HEAD)

Merge: f08f525 764c8c6

Author: komalm2002 <159888345+komalm2002@users.noreply.github.com>

Date: Wed Mar 20 14:10:06 2024 +0530

Merge pull request #2 from komalm2002/newBr

New br

commit 764c8c6013f9ee6bb04263e2da5d5aa4e090149c (origin/newBr)

Merge: f08f525 ca96b00

Author: komalm2002 <159888345+komalm2002@users.noreply.github.com>

Date: Wed Mar 20 14:09:39 2024 +0530

Merge pull request #1 from komalm2002/komalm2002

Create home.txt

commit ca96b0024558a4e78e78041d7151f873c506e624 (origin/komalm2002)

Author: komalm2002 <159888345+komalm2002@users.noreply.github.com>

Date: Wed Mar 20 14:09:24 2024 +0530

Create home.txt

commit f08f525550f0dfa3f649e993eb53c91abfdb500d

Author: komalm2002 <159888345+komalm2002@users.noreply.github.com>

Date: Wed Mar 6 14:23:52 2024 +0530

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git log -p --follow -- home.html

commit ab2908531375554099cc2f63789d54957ef555e8 (HEAD -> main)

Author: Pavanpatil973 <papaviii973@gmail.com>

Date: Wed Apr 3 14:06:34 2024 +0530

again logout file changed

**diff --git a/home.html b/home.html**

**index d3ae4af..5947dfa 100644**

**--- a/home.html**

**+++ b/home.html**

@@ -1,2 +1,5 @@

<html></html>

<head>this is new file</head>

+<body>

+ <h1>home page</h1>

+</body>

commit ea0d7a56d417c316e6ffcbb2f5d3102a31d7f888

Author: Pavanpatil973 <papaviii973@gmail.com>

Date: Wed Apr 3 14:00:51 2024 +0530

logout file changed

**diff --git a/home.html b/home.html**

**index e69de29..d3ae4af 100644**

**--- a/home.html**

**+++ b/home.html**

@@ -0,0 +1,2 @@

+<html></html>

+<head>this is new file</head>

commit c0b8c54a3a9fdad1f5c8f80933b9dd39fce6d8a4

Author: divi002284 <alahitdivya@gmail.com>

Date: Tue Mar 5 14:35:33 2024 +0530

all html file added

**diff --git a/home.html b/home.html**

**new file mode 100644**

**index 0000000..e69de29**

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git diff ea0d7a56d4 c0b8c54a3a

**diff --git a/home.html b/home.html**

**index d3ae4af..e69de29 100644**

**--- a/home.html**

**+++ b/home.html**

@@ -1,2 +0,0 @@

-<html></html>

-<head>this is new file</head>

**diff --git a/home.txt b/home.txt**

**deleted file mode 100644**

**index 8b13789..0000000**

**--- a/home.txt**

**+++ /dev/null**

@@ -1 +0,0 @@

-

**diff --git a/logout.html b/logout.html**

**deleted file mode 100644**

**index 37df368..0000000**

**--- a/logout.html**

**+++ /dev/null**

@@ -1,3 +0,0 @@

-i am komal more i am 21 yr old i have completed bca from imr clg

-<html><head> this is new file</head>

-</html>

**diff --git a/newfile.txt b/newfile.txt**

**deleted file mode 100644**

**index ce55385..0000000**

**--- a/newfile.txt**

**+++ /dev/null**

@@ -1 +0,0 @@

-this is first file

**Scenario5: Track the changes between two branches:**

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git branch

\* main

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git branch branch1

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git branch

branch1

\* main

comp@com135 MINGW64 ~/Oldagehomemanagement (branch1)

$ ls

README.md about.html contact.html home.html home.txt logout.html newfile.txt

comp@com135 MINGW64 ~/Oldagehomemanagement (branch1)

$ git branch branch2

comp@com135 MINGW64 ~/Oldagehomemanagement (branch1)

$ git branch

\* branch1

branch2

main

comp@com135 MINGW64 ~/Oldagehomemanagement (branch1)

$ git diff main branch2

comp@com135 MINGW64 ~/Oldagehomemanagement (branch1)

$ git diff main branch1

comp@com135 MINGW64 ~/Oldagehomemanagement (branch1)

$ git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 2 commits.

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

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ ls

README.md about.html contact.html home.html home.txt logout.html newfile.txt

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ vi logout.html

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git add .

warning: in the working copy of 'logout.html', LF will be replaced by CRLF the next time Git touches it

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git commit -m "done"

[main 78709a6] done

1 file changed, 1 insertion(+), 1 deletion(-)

comp@com135 MINGW64 ~/Oldagehomemanagement (main)

$ git diff main branch2

**diff --git a/logout.html b/logout.html**

**index d6d8d56..37df368 100644**

**--- a/logout.html**

**+++ b/logout.html**

@@ -1,3 +1,3 @@

i am komal more i am 21 yr old i have completed bca from imr clg

<html><head> this is new file</head>

- <h1>this is paragraph</h1></html>

+</html>