**Name:-**Neha Shantaram Bhoge

**Roll No.:-**16

**Practical No.:-**9

**Practical Name:-** Demonstrate the use of diff command

**Scenario 1:Track the change that have not been staged:-**

bhoge@Neha MINGW64 ~

$ cd Adminmanagementsystem

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ ls

README.md aboutus.html contactus.html home.html login.html logout.html

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ vi home.html

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git status

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")

bhoge@Neha MINGW64 ~/Adminmanagementsystem (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 8427d8e..429d775 100644**

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

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

@@ -2,6 +2,10 @@

<head>

<title>This is my Home page</title>

</head>

+ <body>

+ <h1>Home page</h1>

+ </body>

+

</html>

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git add .

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

**Scenario 2:track the change that have staged but not commited:**

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git status

On branch main

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

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

Changes to be committed:

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

modified: home.html

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git diff --staged

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

**index 8427d8e..429d775 100644**

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

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

@@ -2,6 +2,10 @@

<head>

<title>This is my Home page</title>

</head>

+ <body>

+ <h1>Home page</h1>

+ </body>

+

</html>

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git commit -m "login file code change"

[main c0a661b] Done

1 file changed, 4 insertions(+)

**Scenario 3: Track the change after committing a file:**

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ vi home.html

bhoge@Neha MINGW64 ~/Adminmanagementsystem (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 429d775..7340294 100644**

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

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

@@ -4,6 +4,8 @@

</head>

<body>

<h1>Home page</h1>

+ <p>My name is Neha</p>

+ <p>This is program file</p>

</body>

**Scenario 4: Track the change between two commits:**

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git commit -m "Changes are made in login page"

On branch main

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

(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")

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git add .

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

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git log

commit c0a661bbbc5b308c5cbd65c369dfcc43a0744f91 (HEAD -> main)

Author: nehabhoge2003 <bhogeneha03@gmail.com>

Date: Wed Apr 3 20:37:04 2024 +0530

Done

commit aeb502890c6d89cd8e6135565fa6f75900c1dd7f

Author: nehabhoge2003 <bhogeneha03@gmail.com>

Date: Wed Apr 3 20:31:32 2024 +0530

done

commit a042b6610a0336c90d293eb5ca77af45a39bdb5d (origin/main, origin/HEAD)

Author: nehabhoge2003 <159759854+nehabhoge2003@users.noreply.github.com>

Date: Wed Apr 3 20:18:41 2024 +0530

Initial commit

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

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

commit c0a661bbbc5b308c5cbd65c369dfcc43a0744f91 (HEAD -> main)

Author: nehabhoge2003 <bhogeneha03@gmail.com>

Date: Wed Apr 3 20:37:04 2024 +0530

Done

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

**index 8427d8e..429d775 100644**

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

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

@@ -2,6 +2,10 @@

<head>

<title>This is my Home page</title>

</head>

+ <body>

+ <h1>Home page</h1>

+ </body>

+

</html>

commit aeb502890c6d89cd8e6135565fa6f75900c1dd7f

Author: nehabhoge2003 <bhogeneha03@gmail.com>

Date: Wed Apr 3 20:31:32 2024 +0530

done

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

**new file mode 100644**

**index 0000000..8427d8e**

**--- /dev/null**

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

@@ -0,0 +1,7 @@

+<html>

+ <head>

+ <title>This is my Home page</title>

+ </head>

+

+</html>

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git diff aeb502890c a042b6610a

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

**deleted file mode 100644**

**index e69de29..0000000**

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

**deleted file mode 100644**

**index e69de29..0000000**

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

**deleted file mode 100644**

**index 8427d8e..0000000**

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

**+++ /dev/null**

@@ -1,7 +0,0 @@

-<html>

- <head>

- <title>This is my Home page</title>

- </head>

-

-</html>

-

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

**deleted file mode 100644**

**index e69de29..0000000**

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

**deleted file mode 100644**

**index e69de29..0000000**

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git branch

\* main

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git main branch2

git: 'main' is not a git command. See 'git --help'.

The most similar command is

mailinfo

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git branch branch2

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git branch

branch2

\* main

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git diff main branch2

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git diff branch2 main

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git checkout main

Already on 'main'

M home.html

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

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

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ ls

README.md aboutus.html contactus.html home.html login.html logout.html

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ vi home.html

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git add .

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

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git diff main branch2

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git branch

branch2

\* main

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git commit -m "done"

[main fc404f1] done

1 file changed, 5 insertions(+)

bhoge@Neha MINGW64 ~/Adminmanagementsystem (main)

$ git diff main branch2

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

**index 52e846b..429d775 100644**

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

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

@@ -2,13 +2,8 @@

<head>

<title>This is my Home page</title>

</head>

-

<body>

<h1>Home page</h1>

- <p>My name is Neha</p>

- <p>This is program file</p>

- <h2>Well come to my website</h2>

- <p>This is my html file</p>

</body>