**Name : Sneha Anil Patil**

**Roll no. : 114**

**Practical no. : 9**

**Title :**

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

comp@comp139 MINGW64 ~ (master)

$ cd NewRepository

comp@comp139 MINGW64 ~/NewRepository (main)

$ ls

README.md about.html home.html index.html

comp@comp139 MINGW64 ~/NewRepository (main)

$ vi index.html

comp@comp139 MINGW64 ~/NewRepository (main)

$ git status

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: index.html

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

comp@comp139 MINGW64 ~/NewRepository (main)

$ git diff

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

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

**index e69de29..cdf99bd 100644**

**--- a/index.html**

**+++ b/index.html**

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

+<html>

+ <h1>This is index file </h1>

+</html>

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

comp@comp139 MINGW64 ~/NewRepository (main)

$ git add .

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

comp@comp139 MINGW64 ~/NewRepository (main)

$ git status

On branch main

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

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

Changes to be committed:

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

modified: index.html

comp@comp139 MINGW64 ~/NewRepository (main)

$ git diff --staged

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

**index e69de29..cdf99bd 100644**

**--- a/index.html**

**+++ b/index.html**

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

+<html>

+ <h1>This is index file </h1>

+</html>

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

comp@comp139 MINGW64 ~/NewRepository (main)

$ git commit -m "Done"

[main 16c2519] Done

1 file changed, 3 insertions(+)

comp@comp139 MINGW64 ~/NewRepository (main)

$ vi index.html

comp@comp139 MINGW64 ~/NewRepository (main)

$ git diff HEAD

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

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

**index cdf99bd..1056f11 100644**

**--- a/index.html**

**+++ b/index.html**

@@ -1,3 +1,6 @@

<html>

+ <head>

+ <title>Index File </title>

+ </head>

<h1>This is index file </h1>

</html>

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

comp@comp139 MINGW64 ~/NewRepository (main)

$ git commit -m "Done"

On branch main

Your branch is ahead of 'origin/main' by 3 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: index.html

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

comp@comp139 MINGW64 ~/NewRepository (main)

$ git add .

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

comp@comp139 MINGW64 ~/NewRepository (main)

$ git commit -m "Done"

[main d15f323] Done

1 file changed, 3 insertions(+)

comp@comp139 MINGW64 ~/NewRepository (main)

$ git log

commit d15f323f5721390f931bbbe1f775d4e1a293cd80 (HEAD -> main)

Author: ARPITAPATIL <arpitagpatildob1326@gmail.com>

Date: Wed Apr 3 13:58:14 2024 +0530

Done

commit 16c2519a1b86b7c798d5da740bb847d1ac0cc25b

Author: ARPITAPATIL <arpitagpatildob1326@gmail.com>

Date: Wed Apr 3 13:50:22 2024 +0530

Done

commit 31da7db85ebc7e6d942191bd55a3492e513f7c33 (newBranch)

Author: ARPITAPATIL <arpitagpatildob1326@gmail.com>

Date: Thu Mar 28 16:02:28 2024 +0530

Done

commit 4a091e4e484cb63f83095f0436c18d65a61413a1

Author: ARPITAPATIL <arpitagpatildob1326@gmail.com>

Date: Thu Mar 28 15:59:42 2024 +0530

Done

commit 9483a85ea82701ae9f140c364c6e36dc075750c7 (origin/main, origin/HEAD)

Author: sneha152003 <159419142+sneha152003@users.noreply.github.com>

Date: Tue Mar 19 10:10:59 2024 +0530

Initial commit

comp@comp139 MINGW64 ~/NewRepository (main)

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

commit d15f323f5721390f931bbbe1f775d4e1a293cd80 (HEAD -> main)

Author: ARPITAPATIL <arpitagpatildob1326@gmail.com>

Date: Wed Apr 3 13:58:14 2024 +0530

Done

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

**index cdf99bd..1056f11 100644**

**--- a/index.html**

**+++ b/index.html**

@@ -1,3 +1,6 @@

<html>

+ <head>

+ <title>Index File </title>

+ </head>

<h1>This is index file </h1>

</html>

commit 16c2519a1b86b7c798d5da740bb847d1ac0cc25b

Author: ARPITAPATIL <arpitagpatildob1326@gmail.com>

Date: Wed Apr 3 13:50:22 2024 +0530

Done

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

**index e69de29..cdf99bd 100644**

**--- a/index.html**

**+++ b/index.html**

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

+<html>

+ <h1>This is index file </h1>

+</html>

commit 4a091e4e484cb63f83095f0436c18d65a61413a1

Author: ARPITAPATIL <arpitagpatildob1326@gmail.com>

Date: Thu Mar 28 15:59:42 2024 +0530

Done

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

**new file mode 100644**

**index 0000000..e69de29**

comp@comp139 MINGW64 ~/NewRepository (main)

$ git diff 16c2519a1b 4a091e4e48

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

**deleted file mode 100644**

**index e69de29..0000000**

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

**index cdf99bd..e69de29 100644**

**--- a/index.html**

**+++ b/index.html**

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

-<html>

- <h1>This is index file </h1>

-</html>

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

comp@comp139 MINGW64 ~/NewRepository (main)

$ git branch

\* main

newBranch

comp@comp139 MINGW64 ~/NewRepository (main)

$ git diff main newBranch

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

**index 1056f11..e69de29 100644**

**--- a/index.html**

**+++ b/index.html**

@@ -1,6 +0,0 @@

-<html>

- <head>

- <title>Index File </title>

- </head>

- <h1>This is index file </h1>

-</html>

comp@comp139 MINGW64 ~/NewRepository (main)

$