Day-01

Assignment-01:

```
• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ cd myproject

• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ git init

Initialized empty Git repository in C:/Program Files/Git/myproject/.git/

• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ touch index.html
• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ ls

index.html

• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ vim index.html

• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ git status

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

index.html

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


• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ git add index.html

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

```
• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ git status

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file:   index.html
```

```
• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ touch hello.css

• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ vim hello.css

• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ git add --all

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

```
• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ git status

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file:   hello.css

new file:   index.html
```

```
• Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
• $ git commit -m "First commit"
```

```
    [master (root-commit) fbd8606] First commit

    2 files changed, 14 insertions(+)

    create mode 100644 hello.css

    create mode 100644 index.html
```

Assignment-02:

```
  • Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
  • $ git branch feature


  • Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
  • $ git branch

feature

master


  • Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
  • $ git checkout feature

Switched to branch 'feature'


  • Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (feature)
  • $ ls

hello.css  index.html

  • Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (feature)
  • $ vim index.html


  • Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (feature)
  • $ git add --all
```

- Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (feature)
- $ git status

```
On branch feature

Changes to be committed:

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

modified:   index.html
```

- Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (feature)
- $ git commit -m "feature branch"

```
[feature 2c1d6be] feature branch

1 file changed, 1 insertion(+)
```

Assignment-03:

- Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
- $ git branch hotfixer

- Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
- $ git checkout hotfixer

```
Switched to branch 'hotfixer'
```

- Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (hotfixer)
- $ ls

```
hello.css  index.html
```

- Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (hotfixer)
- $ vim index.html

- Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (hotfixer)

```
    •  $ git add --all
```

```
    •  Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (hotfixer)
    •  $ git status
On branch hotfixer
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
modified:   index.html
```

```
    •  Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (hotfixer)
    •  $ git commit -m "Changes to fix from Hotfixer branch"
[hotfixer a33a391] Changes to fix from Hotfixer branch
1 file changed, 1 insertion(+)
```

```
    •  Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (hotfixer)
    •  $ git checkout master
Switched to branch 'master'
```

```
    •  Administrator@DESKTOP-TIC5DM4 MINGW64 /myproject (master)
    •  $ git merge hotfixer
Updating f831155..a33a391
Fast-forward
index.html | 1 +
1 file changed, 1 insertion(+)
```

Day-02

Assignment-01:

```
#!/bin/bash

file="linuxPractice/p1.txt"

if [ -f $file ]

then

        echo "File Exists"

else

        echo "File Not Exists"

fi
```

Assignment-02:

```
#!/bin/bash

var=true

while $var; do

    echo "Enter a number"

    read number

    if [ "$number" != "0" ]; then

        if [ "$((number % 2))" -eq 0 ]; then

            echo "$number is even"

        else

            echo "$number is odd"

        fi

    else

        var=false

    fi
```

```
done
```

Assignment-03:

```
#!/bin/bash
filename="p3.txt"

func1() {
   echo "Number of lines are: "
   wc -l "$1"
}
func1 "$filename"
```

Assignment-04:

```
#!/bin/bash
mkdir -p TestDir
cd TestDir
for((i=1;i<=10;i++)); do
        echo "file$i.txt" >file$i.txt
done
```

Assignment-05:

```
#!/bin/bash
if [ "$DEBUG" = "true" ]; then
        set -x
fi
```

```
#Function Creation
handleErrors() {
        echo "Error: $1"
        exit 1
}
if [ -d "TestDir" ]; then
        handleErrors "Directory Already Exists"
fi
mkdir -p TestDir || handleErrors "Failed to create Directory"
cd TestDir || handleErrors "Failed to change Directory."
for ((i=1; i<=10; i++)); do
   echo "File$i.txt" > "File$i.txt" || handleErrors "Failed to create file 'File$i.txt'."
done
if [ "$DEBUG" = "true" ]; then
        set +x
fi
```

Assignment-06:

```
#!/bin/bash
logFile="Sample.log"
lines=$(grep "ERROR" "$logFile")

echo "$lines" | awk '{print "Date:", $1, $2, "Error:", $0}' | sed -E 's/^([a-zA-Z]+ [0-9]+ [0-9]+:[0-9]+:[0-9]+) (.*)$/\1/'
```

Assignment-07:

```
#!/bin/bash
```

```
#checking if correct arguments are passed.
if [ "$#" -ne 3 ]; then
    echo "Usage: $0 <given_file> <old_text> <new_text>"
    exit 1
fi

given_file="$1"
old_text="$2"
new_text="$3"

final_file="${input_file%.txt}_modified.txt"
sed "s/$old_text/$new_text/g" "$given_file" > "$final_file"
```