Experiment 2

Aim: Version Control with Git: Practice basic Git operations such as repository creation, file addition, committing changes, and pushing to a remote repository.

1. Creating Repository:

After installing the GitHub CLI, run the following command to create a new private GitHub repository named Learning-Git and set it as the remote origin:

gh repo create Learning-Git --private --source=. --remote=origin

```
Command Prompt
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.
C:\Users\rawat>gh auth login
 What account do you want to log into? GitHub.com
 What is your preferred protocol for Git operations on this host? HTTPS
 Authenticate Git with your GitHub credentials? Yes
 How would you like to authenticate GitHub CLI? Login with a web browser
 First copy your one-time code: A0A6-F3BE
Press Enter to open github.com in your browser...
 Authentication complete.
 gh config set -h github.com git_protocol https
 Configured git protocol
  Logged in as madhurimarawat
C:\Users\rawat>gh repo create Learning-Git --private --source=. --remote=origin
 Created repository madhurimarawat/Learning-Git on GitHub
 https://github.com/madhurimarawat/Learning-Git
 Unable to add remote "origin"
C:\Users\rawat>_
```

Fig 1: Creating GitHub Repository Using GitHub CLI

2. Creating a local repository and pushing changes to GitHub Using Git:

Start by initializing a new Git repository locally with **git init**, then add your files using **git add**.

Commit the changes with **git commit -m "Initial commit"**. Finally, link to a remote GitHub repository with git remote add origin **https://github.com/madhurimarawat/Learning-Git.git** and push the changes using **git push -u origin main**.

```
NINGW64:/c/Users/rawat/Desktop/Learning-Git
              RIMA-RAWAT MINGW64 ~ (master)
 inatemaDHORIMA-RAWAT MINGWord
cd Desktop
ash: cd: too many arguments
 awat@MADHURIMA-RAWAT MINGW64 ~ (master) cd Desktop
 awat@MADHURIMA-RAWAT MINGW64 ~/Desktop (master)
mkdir Learning-Git
                     -RAWAT MINGW64 ~/Desktop (master)
 cd Learning-Git
     t@MADHURIMA-RAWAT MINGW64 ~/Desktop/Learning-Git (master)
  git init
itialized empty Git repository in C:/Users/rawat/Desktop/Learning-Git/.git/
 awat@MADHURIMA-RAWAT MINGW64 <mark>~/Desktop/Learning-Git (master)</mark>
echo "#My New Repository for learning Git">>README.md
         MADHURIMA-RAWAT MINGW64 ~/Desktop/Learning-Git (master)
 git add .

inning: in the working copy of 'README.md', LF will be replaced by CRLF the nextime Git touches it
 wateMADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (master)
git commit -m "Initial Commit"
sater (root-commit) 00135cd] Initial Commit
file changed, 1 insertion(+)
reate mode 100644 README.md
 git auth
it: 'auth' is not a git command. See 'git --help'.
  e most similar commands are
                     -RAWAT MINGW64 ~/Desktop/Learning-Git (master)
 git auth login
it: 'auth' is not a git command. See 'git --help'.
he most similar commands are
```

Fig 2: Making Local Repository

Fig 4: Committing Changes to Remote Repository

```
MINOW64/C/Users/nawat/Desktop/Learning-Git
bash: $'\E[200-git': command not found

ramataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (master)
$ git branch
* master

ramataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (master)
$ git branch -m master main

ramataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git push -u origin main
Enumerating objects: 100% (3/3), 258 bytes | 253.00 ki8/s, done.

Counting objects: 100% (3/3), 258 bytes | 253.00 ki8/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/madhurimarawat/Learning-Git.git
* [new branch] main -> main
branch 'main' set up to track 'origin/main'.

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git commit, working tree clean

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git add^c

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git add^c

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
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$ git add ^c

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git add \cdot C

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git add LICENSE.md

secho 'print'C'Hello world')'>>TRIAL.py

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git add LICENSE.md

sarning: in the working copy of 'ITENSE.md', LF will be replaced by CRLF the next time Git touches it

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git add Title.py

varning: in the working copy of 'TRIAL.py', LF will be replaced by CRLF the next time Git touches it

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git add Title.py

varning: in the working copy of 'TRIAL.py', LF will be replaced by CRLF the next time Git touches it

rawataWADHURIMA-RAWAT MINGW64 -/Desktop/Learning-Git (main)
$ git add Title.py

varning: in the working copy of 'TRIAL.py', LF will be replaced by CRLF the next time Git touches it
```

Fig 3: Pushing Files and Making Changes



Fig 5: Repository Updated With Changes