

### Skill Description:

Develop foundational expertise in Git, covering version control basics, branching, collaboration with remote repositories, tagging for versioning, and handling ignored files and temporary changes. Additionally, explore Git hooks, GUI tools, and the Git Flow workflow for advanced version control strategies. Gain hands-on experience to efficiently manage code changes and collaboration workflows using Git.

### Problem Statement 1: Git Basics and Repository Creation

- ❑ Create a local Git repository for a simple project (e.g., a basic website or a text-based application).
- ❑ Initialize the repository, add files, and make an initial commit.
- ❑ Demonstrate the use of basic Git commands like git add, git commit, and git status.

### Learning Outcomes:

- ❑ Understand the process of initializing a Git repository.
- ❑ Learn how to stage files for commit.
- ❑ Execute an initial commit to capture project changes

```
shashidhar.AS@LAPTOP-J2I4FR2L MINGW64 /d/UST/Module2/Assignment3
$ git init
Initialized empty Git repository in D:/UST/Module2/Assignment3/.git/

shashidhar.AS@LAPTOP-J2I4FR2L MINGW64 /d/UST/Module2/Assignment3 (main)
$ git add .

shashidhar.AS@LAPTOP-J2I4FR2L MINGW64 /d/UST/Module2/Assignment3 (main)
$ git commit -m "First commit"
[main (root-commit) bcfdaf9] First commit
1 file changed, 1 insertion(+)
create mode 100644 New Text Document.txt

shashidhar.AS@LAPTOP-J2I4FR2L MINGW64 /d/UST/Module2/Assignment3 (main)
$ git status
On branch main
nothing to commit, working tree clean

shashidhar.AS@LAPTOP-J2I4FR2L MINGW64 /d/UST/Module2/Assignment3 (main)
$ git remote add origin https://github.com/SHASHIDHAR-as/learnGitUST.git

shashidhar.AS@LAPTOP-J2I4FR2L MINGW64 /d/UST/Module2/Assignment3 (main)
$ git branch assignment3

shashidhar.AS@LAPTOP-J2I4FR2L MINGW64 /d/UST/Module2/Assignment3 (main)
$ git checkout assignment3
Switched to branch 'assignment3'

shashidhar.AS@LAPTOP-J2I4FR2L MINGW64 /d/UST/Module2/Assignment3 (assignment3)
$ git push -u origin assignment3
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 239 bytes | 239.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'assignment3' on GitHub by visiting:
remote:   https://github.com/SHASHIDHAR-as/learnGitUST/pull/new/assignment3
remote:
To https://github.com/SHASHIDHAR-as/learnGitUST.git
```