K. R MANGALM UNIVERSITY

SCHOOL OF ENGEENERING AND TECHNOLOGY

ASSINGNMENT—4

COMPUTER SCIENCE FUNDAMENTALS AND CAREER PATHWAYS

TOPIC—

BUILD & DOCUMENT A MINI PROJECT USING GITHUB AND VSCODE

SEMESTER— 1

COURSE—

B.TECH CSE-AI & Robotics

ROLL NO. –2501630004

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SUBMITTED TO:- Ravinder Sir

PROJECT OVERVIEW:

This mini-project focuses on creating a simple Calculator application using Python and managing the entire development workflow using Git and GitHub.

I used VS Code as the development environment, wrote the Python code, test the calculator operations, and then used Git to track changes and published the finished project on GitHub.

VS CODE:

```
#CALCULATOR
print("hello world")
a=int(input("enter any number a"))
b=int(input("enter any number b"))
c=int(input("enter 1 for addition 2 for subtraction and 3 for multiplication"))
d=a+b
e=a-b
f=a*b
if c==1:
    print(d)
if c==2:
    print(e)
else:
    print(f)
```

GIT COMMANDS USED:

1. GIT INIT:

Initializes a new Git repository in the project folder.

It tells Git: "Start tracking changes here."

2. GIT ADD:

Adds (stages) the changed files so they can be included in the next commit.

Example:

git adds. → stages all changes

3. GIT COMMIT:

Saves the staged changes permanently to the repository along with a message.

Example:

git commit -m "Added calculator functions"

4. GIT BRANCH:

Creates a new branch to work on features separately.

5. GIT PUSH:

git push origin main Uploads your local commits to the GitHub repository.

Example:

SCREENSHOT OF THE COMMANDS:

```
C:\Users\DELL\OneDrive\PYTHON> git init
Initialized existing Git repository in C:/Users/DELL/OneDrive/PYTHON/.git/
C:\Users\DELL\OneDrive\PYTHON> git add
Nothing specified, nothing added.
Tht: Mayte you wanted to say 'git add .?
C:\esers\DELL\OneDrive\PYTHON> git comfig set advice.addEmptyPatirspec false"
C:\Users\DELL\OneDrive\PYTHON> git commit cal.py
C:\Master 5cfe96b] First commit to repo       "first commit to repo"
Master 5cfe06b) first commit ts repo    ....
1 File changed, 1 insertioh(+), 1 delection(-)
C:\Users\DELL\OneDrive\PYTHON> git push
Enumerating objects: 5, done.
Use compression using up up 4 threads
objettso: 100% (3003/303) kmbytes] (
objects 9 css (302/303) [delta]    | 101.00 Ki8/s, done.
https:\/github.com/rakshit7/linux-shell-assignment git
https://github.com/rakahit7/ralkna
C:\Users\DELL\OneDrive\PYTHON>
C:\Users\DELL\OneDrive\PYTHON>
C:\Users\DELL\OneDrive\PYTHON>
```