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CASE STUDY 1 :

New Project Version Control Setup Scenario:

You are assigned to develop a Library Management System. Before coding, your team decides to enable version control.

Tasks:

- Create a project folder and open it in VS Code
- Initialize a Git repository
- Create a Python file and track it using Git
- Commit the initial version

The screenshot shows the Visual Studio Code interface. In the top left, there's a 'Welcome' icon, a 'proj.py' tab, and a close button. Below the tabs, the code editor contains the following Python script:

```
proj.py > ...
1 a=int(input("enter a"))
2 b=int(input("enter b"))
3 for i in range(1,a+1):
4     for j in range(0,b):
5         print[i]
```

Below the code editor, there are four tabs: PROBLEMS, OUTPUT, DEBUG CONSOLE, and TERMINAL. The TERMINAL tab is selected and shows the following command-line session:

```
PS C:\Users\batch1.VITUNIVERSITY\Desktop\new-project1> git push origin main
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
PS C:\Users\batch1.VITUNIVERSITY\Desktop\ Focus folder in explorer (ctrl + click)
Reinitialized existing Git repository in C:/Users/batch1.VITUNIVERSITY/Desktop/new-project1/.git/
PS C:\Users\batch1.VITUNIVERSITY\Desktop\new-project1> git add proj.py
PS C:\Users\batch1.VITUNIVERSITY\Desktop\new-project1> git commit -m "sare"
[main 0fe0b53] sare
1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\batch1.VITUNIVERSITY\Desktop\new-project1> git push origin main
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
PS C:\Users\batch1.VITUNIVERSITY\Desktop\new-project1> git commit -m "second commit"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
PS C:\Users\batch1.VITUNIVERSITY\Desktop\new-project1> git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 20 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 300 bytes | 300.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Sare1525/new-project1.git
  ed74073..0fe0b53  main -> main
PS C:\Users\batch1.VITUNIVERSITY\Desktop\new-project1>
```

The screenshot shows a GitHub repository interface for a project named "new-project1". The repository owner is "Sare1525". The main page displays the contents of the "proj.py" file. The code in the file is:

```
a=int(input("enter a"))
b=int(input("enter b"))
for i in range(1,a+1):
    for j in range(0,b):
        print(i)
```