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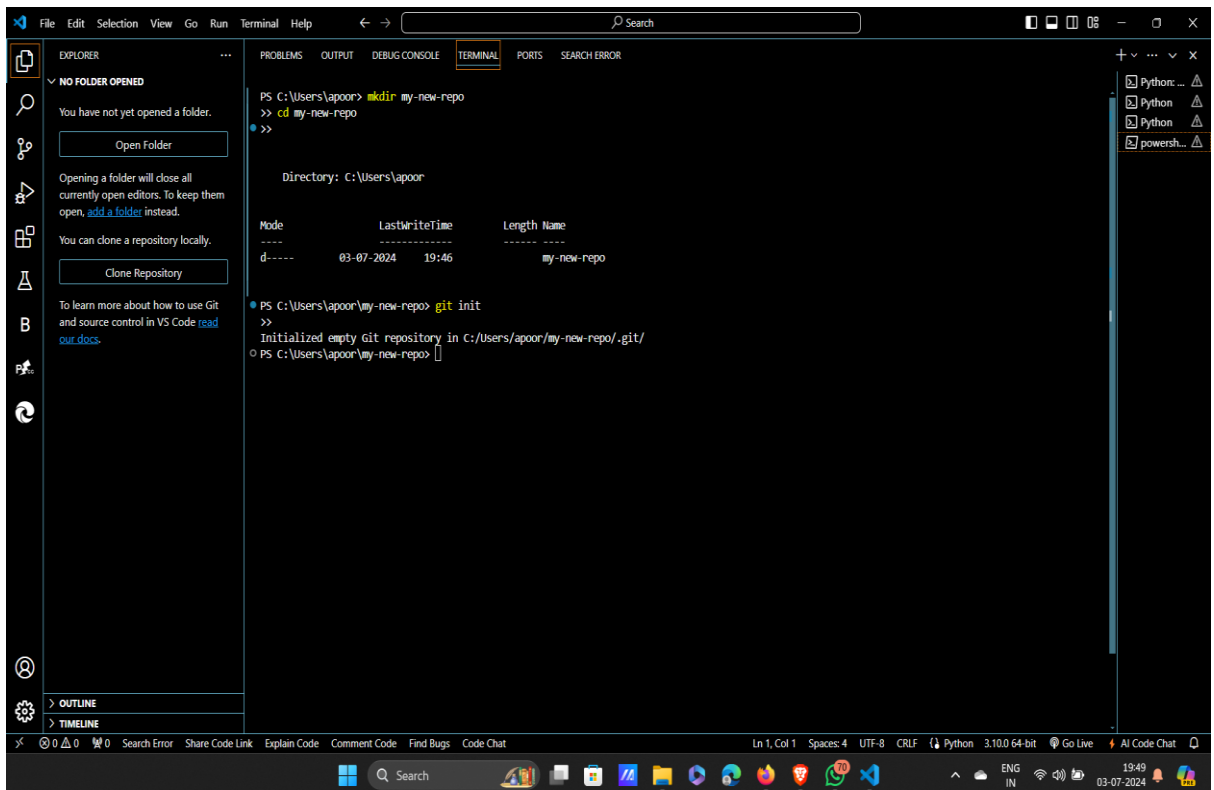
**INTERN ID: MST03-004**

# Problem Statement 1

## 1. Create a Fresh Repository and Upload Files using Git

### Initialize a New Git Repository

1. **Create a new directory navigate into it and** Initialize a new Git repository:



The screenshot shows the Visual Studio Code interface with the Terminal panel active. The Explorer panel on the left shows 'NO FOLDER OPENED'. The Terminal panel displays the following commands and output:

```
PS C:\Users\apoorv> mkdir my-new-repo
>> cd my-new-repo
>>

Directory: C:\Users\apoorv

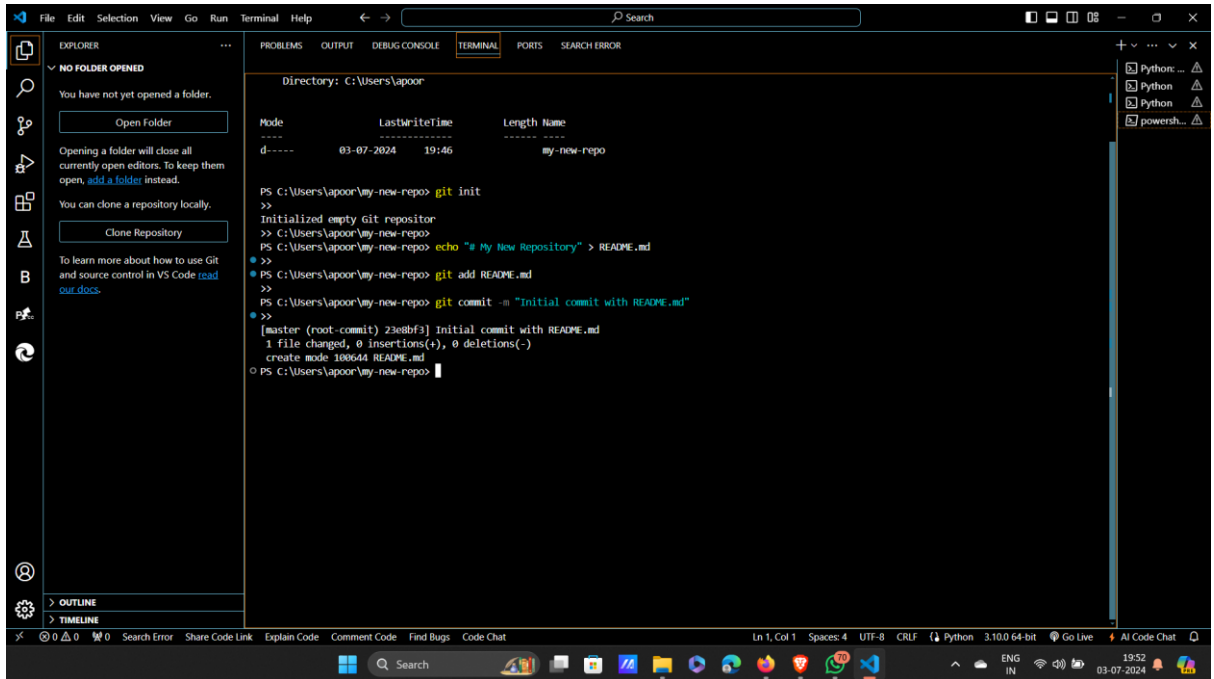
Mode                LastWriteTime         Length Name
----                -
d-----          03-07-2024   19:46             my-new-repo

PS C:\Users\apoorv\my-new-repo> git init
>>
Initialized empty Git repository in C:/Users/apoorv/my-new-repo/.git/
PS C:\Users\apoorv\my-new-repo>
```

The status bar at the bottom indicates the current file is 'Ln 1, Col 1' with 'Spaces: 4' and 'UTF-8' encoding. The system tray shows the date as '03-07-2024' and time as '19:49'.

## Add a File to the Repository

Create a new file README.md, Add the file to the staging area and Commit the file to the repository:

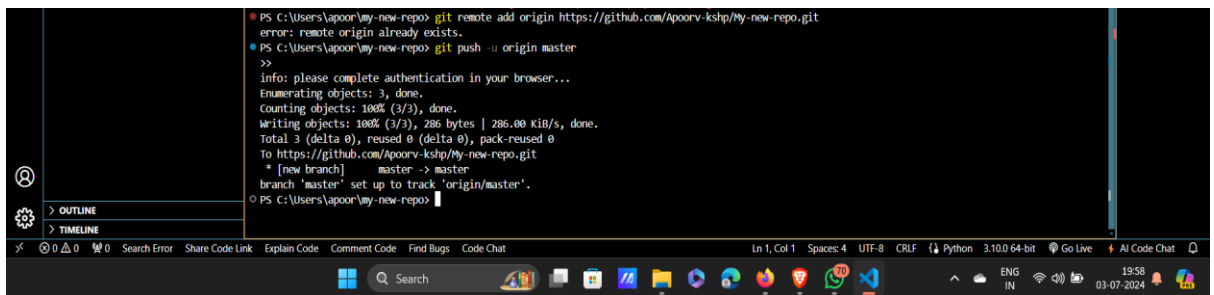


```
Directory: C:\Users\apoorv

Mode                LastWriteTime         Length Name
----                -
d-----          03-07-2024   19:46             my-new-repo

PS C:\Users\apoorv\my-new-repo> git init
>>
Initialized empty Git repository
>> C:\Users\apoorv\my-new-repo
PS C:\Users\apoorv\my-new-repo> echo "# My New Repository" > README.md
>>
PS C:\Users\apoorv\my-new-repo> git add README.md
>>
PS C:\Users\apoorv\my-new-repo> git commit -m "Initial commit with README.md"
>>
[master (root-commit) 23e8bf3] Initial commit with README.md
1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
PS C:\Users\apoorv\my-new-repo>
```

## Push to a Remote Repository



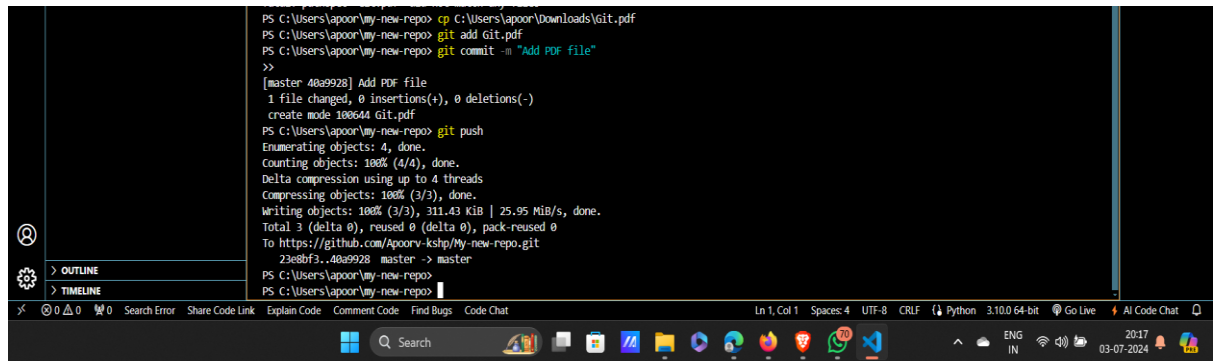
```
PS C:\Users\apoorv\my-new-repo> git remote add origin https://github.com/Apoorv-kshp/My-new-repo.git
error: remote origin already exists.
PS C:\Users\apoorv\my-new-repo> git push -u origin master
>>
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 286 bytes | 286.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Apoorv-kshp/My-new-repo.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
PS C:\Users\apoorv\my-new-repo>
```

## Run the Program and Project by Git



```
PS C:\Users\apoorv\my-new-repo> python hello.py
Hello, World!
PS C:\Users\apoorv\my-new-repo>
```


## Add a PDF File from Local to GitHub by Git



```
PS C:\Users\apoor\my-new-repo> cp C:\Users\apoor\Downloads\Git.pdf
PS C:\Users\apoor\my-new-repo> git add Git.pdf
PS C:\Users\apoor\my-new-repo> git commit -m "Add PDF file"
>>
[master 40a9928] Add PDF file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Git.pdf
PS C:\Users\apoor\my-new-repo> git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 311.43 KiB | 25.95 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Apoorv-kshp/My-new-repo.git
23e8bf3..40a9928 master -> master
PS C:\Users\apoor\my-new-repo>
```

The screenshot shows a VS Code terminal window with the following output:   
1. Command: `cp C:\Users\apoor\Downloads\Git.pdf`  
2. Command: `git add Git.pdf`  
3. Command: `git commit -m "Add PDF file"`  
4. Output: `[master 40a9928] Add PDF file`  
5. Output: `1 file changed, 0 insertions(+), 0 deletions(-)`  
6. Output: `create mode 100644 Git.pdf`  
7. Command: `git push`  
8. Output: `Enumerating objects: 4, done.`  
9. Output: `Counting objects: 100% (4/4), done.`  
10. Output: `Delta compression using up to 4 threads`  
11. Output: `Compressing objects: 100% (3/3), done.`  
12. Output: `Writing objects: 100% (3/3), 311.43 KiB | 25.95 MiB/s, done.`  
13. Output: `Total 3 (delta 0), reused 0 (delta 0), pack-reused 0`  
14. Output: `To https://github.com/Apoorv-kshp/My-new-repo.git`  
15. Output: `23e8bf3..40a9928 master -> master`  
16. Prompt: `PS C:\Users\apoor\my-new-repo>`

## Clone Any One Program in the Same Repository



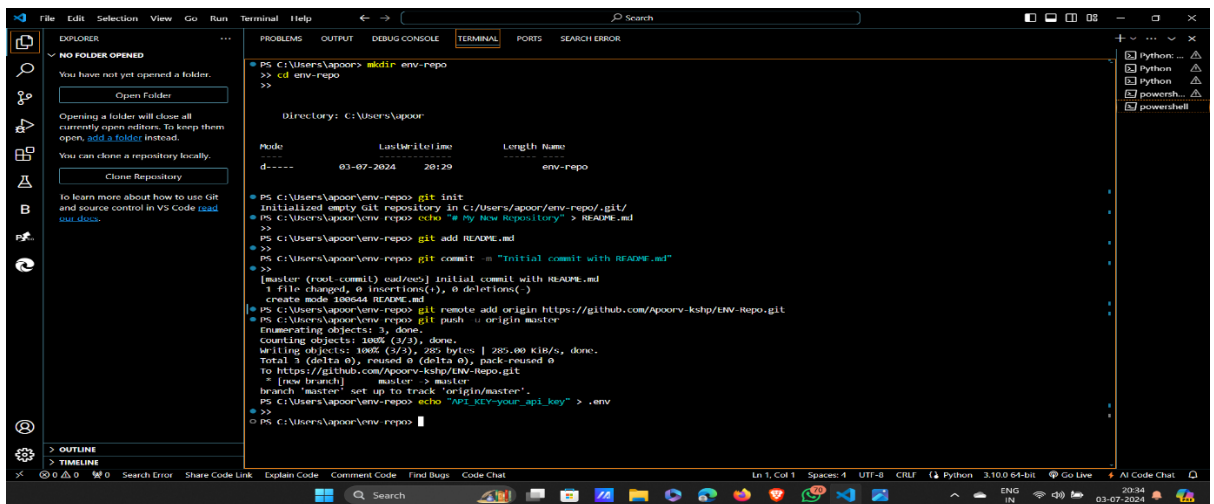
```
PS C:\Users\apoor\my-new-repo> git clone https://github.com/Apoorv-kshp/My-new-repo.git my-new-repo-copy
>>
Cloning into 'my-new-repo-copy'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 1), reused 5 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), 311.64 KiB | 1.69 MiB/s, done.
Resolving deltas: 100% (1/1), done.
PS C:\Users\apoor\my-new-repo>
```

The screenshot shows a VS Code terminal window with the following output:   
1. Command: `git clone https://github.com/Apoorv-kshp/My-new-repo.git my-new-repo-copy`  
2. Prompt: `>>`  
3. Output: `Cloning into 'my-new-repo-copy'...`  
4. Output: `remote: Enumerating objects: 6, done.`  
5. Output: `remote: Counting objects: 100% (6/6), done.`  
6. Output: `remote: Compressing objects: 100% (4/4), done.`  
7. Output: `remote: Total 6 (delta 1), reused 5 (delta 0), pack-reused 0`  
8. Output: `Receiving objects: 100% (6/6), 311.64 KiB | 1.69 MiB/s, done.`  
9. Output: `Resolving deltas: 100% (1/1), done.`  
10. Prompt: `PS C:\Users\apoor\my-new-repo>`

# Problem Statement 2

## Handling Environment Variables

Create a .env file and then add .env to .gitignore and then Commit and push the changes:

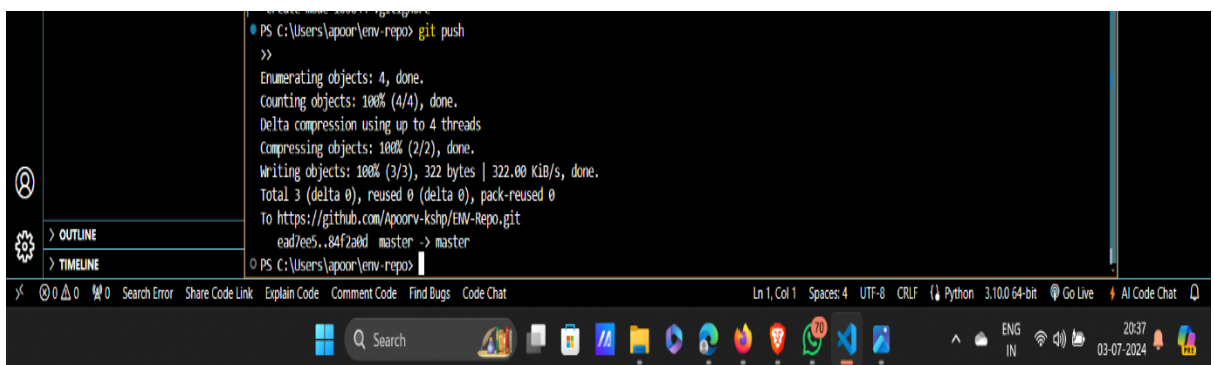


```
PS C:\Users\apoor> mkdir env-repo
>> cd env-repo

Directory: C:\Users\apoor

Mode                LastWriteTime         Length Name
----                -
d-----          03-07-2024   20:29         env-repo

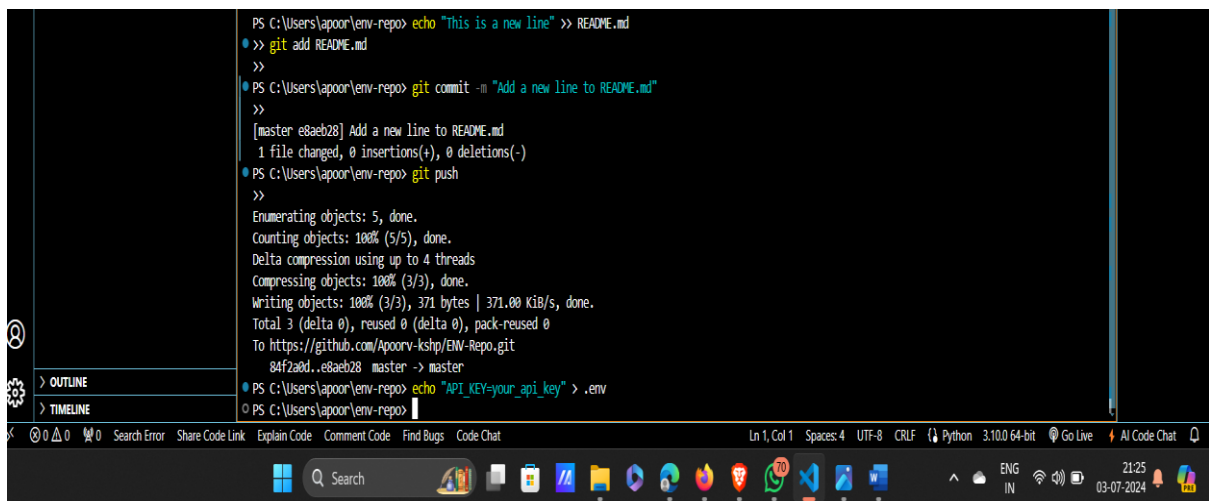
PS C:\Users\apoor\env-repo> git init
Initialized empty Git repository in C:\Users\apoor\env-repo/.git/
PS C:\Users\apoor\env-repo> echo "# My New Repository" > README.md
>>
PS C:\Users\apoor\env-repo> git add README.md
>>
PS C:\Users\apoor\env-repo> git commit -m "Initial commit with README.md"
[master (root-commit) ead/ee5] initial commit with README.md
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md
PS C:\Users\apoor\env-repo> git remote add origin https://github.com/Apoorv-kshp/ENV-Repo.git
PS C:\Users\apoor\env-repo> git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 285 bytes | 285.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Apoorv-kshp/ENV-Repo.git
[new branch]      master -> master
branch 'master' set up to track 'origin/master'.
PS C:\Users\apoor\env-repo> echo "API_KEY=your_api_key" > .env
>>
PS C:\Users\apoor\env-repo>
```



```
PS C:\Users\apoor\env-repo> git push
>>
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 322 bytes | 322.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Apoorv-kshp/ENV-Repo.git
ead/ee5..84f2a6d  master -> master
PS C:\Users\apoor\env-repo>
```

# Modify Code and Commit Changes

Edit a file, Commit the changes, and Push the changes:



```
PS C:\Users\apoor\env-repo> echo "This is a new line" >> README.md
>> git add README.md
>>
PS C:\Users\apoor\env-repo> git commit -m "Add a new line to README.md"
>>
[master e8aeb28] Add a new line to README.md
1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\apoor\env-repo> git push
>>
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 371 bytes | 371.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Apoorv-kshp/ENV-Repo.git
84f2a0d..e8aeb28 master -> master
PS C:\Users\apoor\env-repo> echo "API_KEY=your_api_key" > .env
PS C:\Users\apoor\env-repo>
```

The screenshot shows a VS Code terminal window with a dark theme. The terminal displays the execution of several Git commands in a PowerShell prompt. The commands are: `echo "This is a new line" >> README.md`, `git add README.md`, `git commit -m "Add a new line to README.md"`, and `git push`. The output of these commands shows the successful addition and commit of a new line to the README.md file, followed by the push operation to the remote repository. The push output includes details about object enumeration, counting, delta compression, and writing. The final command shown is `echo "API_KEY=your_api_key" > .env`. The VS Code interface includes a sidebar on the left with 'OUTLINE' and 'TIMELINE' views, and a status bar at the bottom showing file encoding (UTF-8), line and column numbers (Ln 1, Col 1), and other settings.