

Experiment 1: Initialize Repository & First Commit

```
mkdir myproj1  
cd myproj1  
git init  
notepad new.txt  
git status  
git add new.txt  
git commit -m "new.txt added"
```

Experiment 2: Creating and Managing Branches

```
git branch feature-branch  
git checkout master  
git merge feature-branch
```

Experiment 3: Stash, Switch Branch, Apply Stash

```
git stash  
git checkout feature-branch  
git stash apply
```

Experiment 4: Clone Remote Repository

```
git clone <repository_url>
```

Experiment 5: Fetch and Rebase

```
git fetch origin  
git rebase origin/master
```

Experiment 6: Merge with Custom Commit Message

```
git merge feature-branch -m "Merged feature-branch into master"
```

Experiment 7: Create Lightweight Tag

```
git tag v1.0
```

Experiment 8: Cherry-pick Range of Commits

```
git cherry-pick commit1^..commit2
```

Experiment 9: View Commit Details

```
git show <commit_id>
```

Experiment 10: List Commits by Author and Date

```
git log --author="JohnDoe" --since="2023-01-01" --until="2023-12-31"
```

Experiment 11: Display Last Five Commits

```
git log -5
```

Experiment 12: Undo a Specific Commit

```
git revert abc123
```