

**Assignment 2: Branch Creation and Switching** Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

**Solution:**

1. **Navigate to your project directory:**

```
cd /path/to/your/project
```

2. **Ensure your repository is up-to-date** by pulling the latest changes from the remote repository:

```
git pull origin main
```

3. **Create a new branch named 'feature':**

```
git checkout -b feature
```

This command creates a new branch called 'feature' and switches to it immediately.

4. **Verify that you are on the 'feature' branch:**

```
git branch
```

This will list all the branches and highlight the current one with an asterisk (\*) next to it.

5. **Make changes to your project.** For example, you might edit a file called **example.txt**:

```
echo "This is a change in the feature branch." >> example.txt
```

6. **Add your changes to the staging area:**

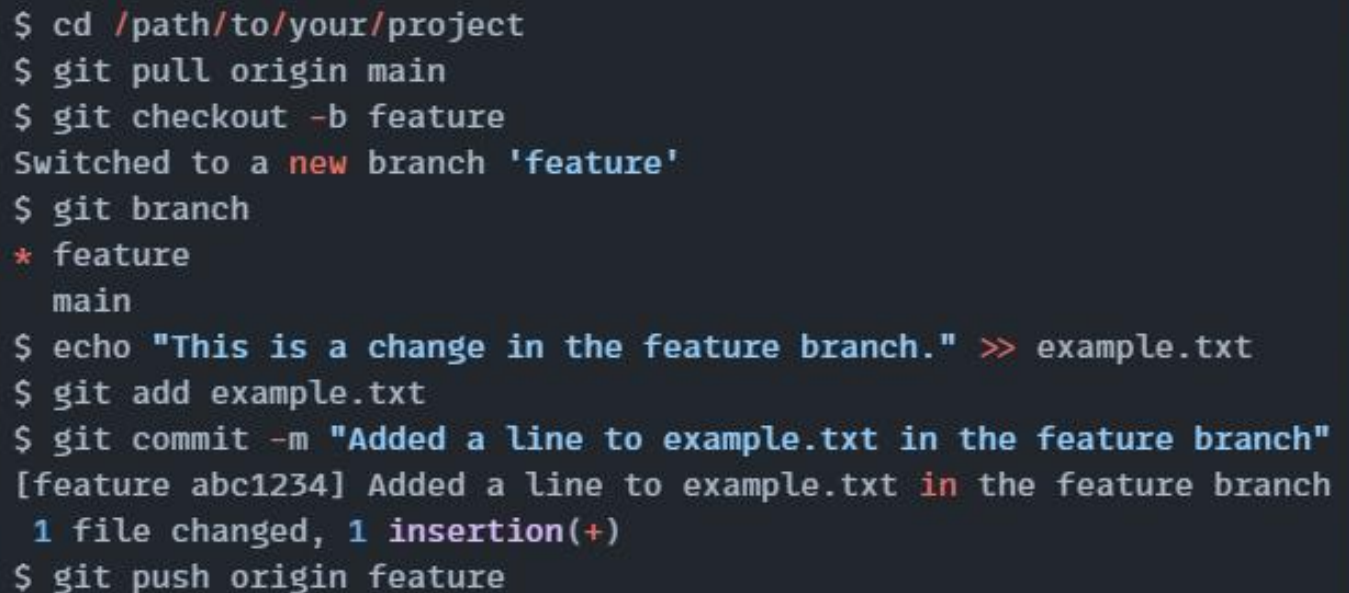
```
git add example.txt
```

7. **Commit your changes** with a meaningful commit message:

```
git commit -m "Added a line to example.txt in the feature branch"
```

8. **Push your changes to the remote repository** (if you want to share your changes with others or back them up remotely):

```
git push origin feature
```

A terminal window with a dark background and three colored window control buttons (red, yellow, green) in the top-left corner. The terminal displays a series of Git commands and their outputs.

```
$ cd /path/to/your/project
$ git pull origin main
$ git checkout -b feature
Switched to a new branch 'feature'
$ git branch
* feature
  main
$ echo "This is a change in the feature branch." >> example.txt
$ git add example.txt
$ git commit -m "Added a line to example.txt in the feature branch"
[feature abc1234] Added a line to example.txt in the feature branch
1 file changed, 1 insertion(+)
$ git push origin feature
```