

Pushing changes to Master Branch

1. Simple HTML Project with file index.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  |  <title>My First Web Page</title>
5  </head>
6  <body>
7  |  <h1>Hello, GitHub!</h1>
8  |  <p>This is my HTML project.</p>
9  </body>
10 </html>
11
```

2. Initial commit of the file to github

```
PS C:\Users\devan\OneDrive\Desktop\git-project> git init
Initialized empty Git repository in C:/Users/devan/OneDrive/Desktop/git-project/.git/
PS C:\Users\devan\OneDrive\Desktop\git-project> git add .
PS C:\Users\devan\OneDrive\Desktop\git-project> git commit -m "Initial commit"
Source Control (Ctrl+Shift+G) in

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

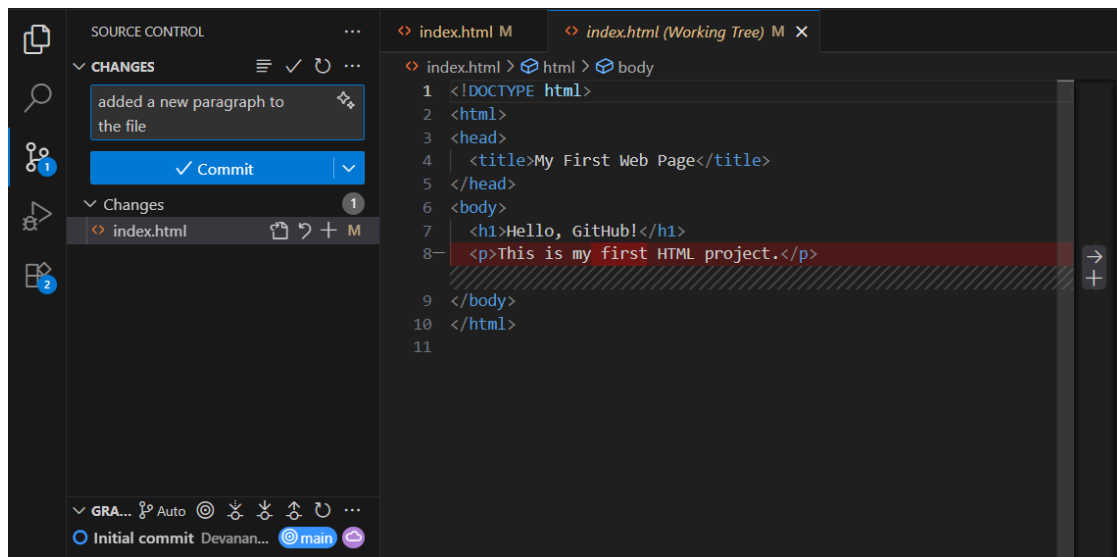
to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'devan@Devananda_PC.(none)')
PS C:\Users\devan\OneDrive\Desktop\git-project> git config --global user.name "Devananda Rajan"
PS C:\Users\devan\OneDrive\Desktop\git-project> git config --global user.email "profilework1628@gmail.com"
PS C:\Users\devan\OneDrive\Desktop\git-project> git commit -m "Initial commit"
[main (root-commit) cebcc1f] Initial commit
 1 file changed, 10 insertions(+)
 create mode 100644 index.html
PS C:\Users\devan\OneDrive\Desktop\git-project> git remote add origin https://github.com/Devananda-2428/SE_GIT.git
PS C:\Users\devan\OneDrive\Desktop\git-project> git branch -M main
PS C:\Users\devan\OneDrive\Desktop\git-project> git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 352 bytes | 176.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Devananda-2428/SE_GIT.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\devan\OneDrive\Desktop\git-project>
```

3. Adding changes to the file idex.html

```
<> index.html > html > body > p
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>My First Web Page</title>
5  </head>
6  <body>
7    <h1>Hello, GitHub!</h1>
8    <p>This is my HTML project.</p>
9    <p>this is a line after creation to show changes!</p>
10 </body>
11 </html>
```

4. Changes reflected in the source control. Committed the file with message “added a new paragraph to the file”

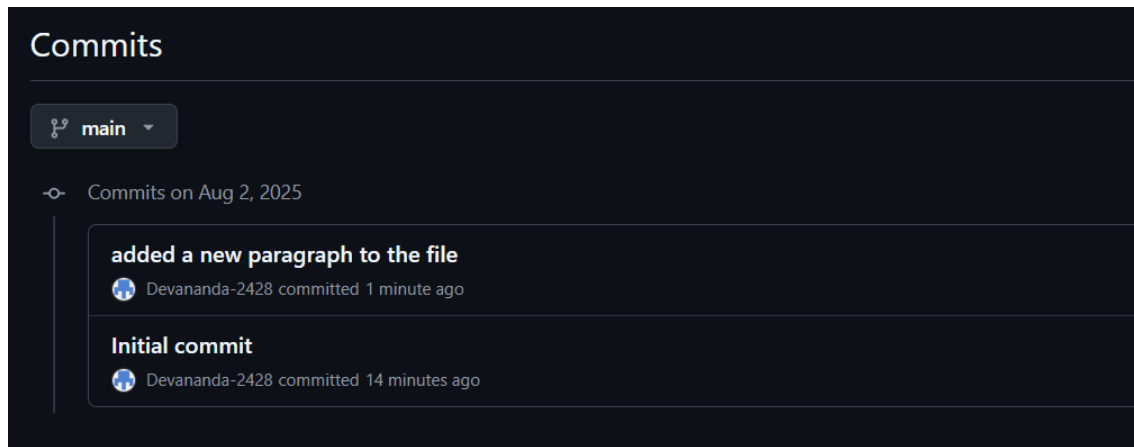


5. Pushed the committed file to github repository

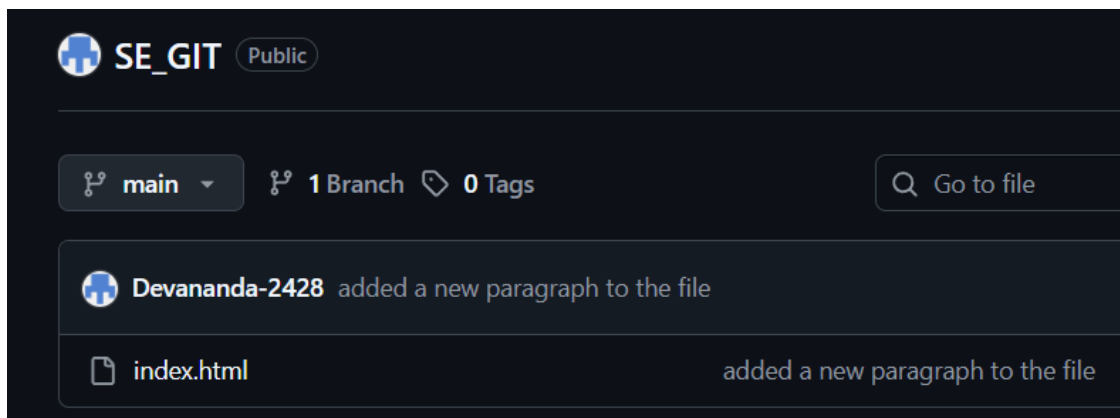
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\devan\OneDrive\Desktop\git-project> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 422 bytes | 211.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Devananda-2428/SE_GIT.git
   cebcc1f..1fda1b5  main -> main
PS C:\Users\devan\OneDrive\Desktop\git-project>
```

6. Commits reflected in the github



7. The github repository



Questions:

1. What are the steps to push a Git project to the master branch?

Answer: Steps to push a git project to the master branch are the following:

1. git init
2. git add .
3. git commit -m "initial commit"
4. git remote add origin <repository-url>
5. git branch -M main
6. git push -u origin main

2. How do you commit changes using GitHub Desktop?

Answer: Steps to commit changes using GitHub Desktop:

1. Open GitHub Desktop
2. Choose your repository.
3. Make changes in VS code

4. The changed files are reflected in GitHub Desktop
5. Enter a commit message and click commit to main
6. Then click “push origin” to upload to GitHub

3. Mention two advantages of using Git inside an IDE:

Answer: Advantages of using Git inside IDE are:

- We can see file changes visually and manage commits easily.
- Integrated terminal and source control panel help streamline the workflow without switching tools.