**Activity Title: Getting Started with Git, Branching, and GitHub**  
  
**Objective:**

Students will learn how to:

* Initialize a Git repository
* Track and commit changes
* Create and switch branches
* Merge changes
* Push to a remote GitHub repository

**Scenario**:

You are part of a development team working on a website. You’ve been assigned to create a **"Contact Us"** section of the website. Your team wants to keep the main codebase clean, so you’ll work on a **separate branch**, then **merge** your work back into the main branch when you're done.  
  
**Instructions**

1. **Local Setup**
   1. Open terminal and configure Git(if not done yet)

git config --global user.name "Your Name"

git config --global user.email [youremail@example.com](mailto:youremail@example.com)

* 1. Create a new project folder

mkdir my-website

cd my-website

git init

* 1. Create a file named index.html with this content:

<h1>Welcome to My Website</h1>

* 1. Add and commit the file:

git add index.html

git commit -m “add homepage”

1. **Work on a Feature Branch**
   1. Create and switch to a new branch:

git checkout -b contact-us

* 1. Create a new filed named contact.html with this content:

<h1>Contact Us</h1>

<p>Email: [yourname@example.com</p](mailto:yourname@example.com%3c/p)>

1. **Merge Back to Main**
   1. Switch back to the main branch:

git checkout main

* 1. Merge the contact-us branch:

git merge contact-us

1. **Push to GitHub**
   1. On GitHub, create a new repository named my-website.
   2. Connect your local repo to GiitHub

git remote add origin https://github.com/your-username/my-website.git

git branch -M main

git push -u origin main

**Submission**:

Each student must submit the following:

1. **GitHub Repository Link**

* URL of their GitHub repository (e.g., <https://github.com/your-username/my-website>).

1. **Branch Evidence**

* Screenshot showing both main and contact-us branches on GitHub.
* Alternatively, submit a link to the **Branches** section of the GitHub repo (e.g., <https://github.com/your-username/my-website/branches>).

1. **Local Git History**
   * Run the following command in the terminal and take a screenshot:

git log --oneline --all –graph

* + This will show a visual history of commits across all branches.

**Example output:**  
\* 3f2c1a7 (HEAD -> main) Merge branch 'contact-us'

|\

| \* 4a7b2c1 (contact-us) Add contact us page

\* | b2c1d3f Add homepage