GIT SOLUTIONS 1:

**Step 1: Setup your machine with Git Configuration**

1 To check if Git client is installed properly: Open Git bash shell and execute

(base) shamimakhtar@Shamims-MacBook-Air ~ % git --version

git version 2.49.0

2 To configure user level configuration of user ID and email ID execute

(base) shamimakhtar@Shamims-MacBook-Air ~ % git config --global user.name "ShamimAkhtar-bot"

(base) shamimakhtar@Shamims-MacBook-Air ~ % git config --global user.email [akhtar4900shamim@gmail.com](mailto:akhtar4900shamim@gmail.com)

3 To check if the configuration is properly set, execute the following command.

(base) shamimakhtar@Shamims-MacBook-Air ~ % git config --list

credential.helper=osxkeychain

user.name=ShamimAkhtar-bot

[user.email=akhtar4900shamim@gmail.com](mailto:user.email=akhtar4900shamim@gmail.com)

**Step 2: Integrate vscode.exe to Git and make it a default editor**

(base) shamimakhtar@Shamims-MacBook-Air ~ % brew install --cask visual-studio-code

==> **Auto-updating Homebrew...**

(base) shamimakhtar@Shamims-MacBook-Air ~ % code --version

1.101.2

2901c5ac6db8a986a5666c3af51ff804d05af0d4

arm64

(base) shamimakhtar@Shamims-MacBook-Air ~ %

**Step 3: Add a file to source code repository**

1. Open Git bash shell and create a new project “**GitDemo**” by executing the command

(base) shamimakhtar@Shamims-MacBook-Air ~ % mkdir GitDemo

cd GitDemo

1. Git bash initializes the “**GitDemo**” repository. To verify, execute the command

(base) shamimakhtar@Shamims-MacBook-Air GitDemo % git init

hint: Using 'master' as the name for the initial branch. This default branch name

hint: is subject to change. To configure the initial branch name to use in all

hint: of your new repositories, which will suppress this warning, call:

hint:

hint: git config --global init.defaultBranch <name>

hint:

hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and

hint: 'development'. The just-created branch can be renamed via this command:

hint:

hint: git branch -m <name>

Initialized empty Git repository in /Users/shamimakhtar/GitDemo/.git/

**total 0**

**drwxr-xr-x 3 username staff 96 Jun 27 14:30 .**

**drwxr-xr-x 5 username staff 160 Jun 27 14:30 ..**

**drwxr-xr-x 9 username staff 288 Jun 27 14:30 .git**

1. To create a file **“welcome.txt”** and add content to the file, execute the command

(base) shamimakhtar@Shamims-MacBook-Air GitDemo % echo "# Welcome to GitDemo" > welcome.tx

1. To verify if the file “welcome.txt” is created, execute

(base) shamimakhtar@Shamims-MacBook-Air GitDemo % ls -la

total 8

drwxr-xr-x 4 shamimakhtar staff 128 29 Jun 12:58 .

drwxr-x---+ 56 shamimakhtar staff 1792 29 Jun 12:57 ..

drwxr-xr-x@ 9 shamimakhtar staff 288 29 Jun 12:58 .git

-rw-r--r-- 1 shamimakhtar staff 21 29 Jun 12:58 welcome.txt

(base) shamimakhtar@Shamims-MacBook-Air GitDemo %

1. To verify the content, execute the command

(base) shamimakhtar@Shamims-MacBook-Air GitDemo % cat welcome.txt

# Welcome to GitDemo

1. Check the status by executing

(base) shamimakhtar@Shamims-MacBook-Air GitDemo % git status

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

welcome.txt

nothing added to commit but untracked files present (use "git add" to track)

1. To make the file to be tracked by Git repository, execute the command

(base) shamimakhtar@Shamims-MacBook-Air GitDemo % git add welcome.txt

1. To add multi line comments, we are opening default editor to comment. Execute the command

(base) shamimakhtar@Shamims-MacBook-Air GitDemo % git commit -m "Initial commit with welcome file"

[master (root-commit) f43225b] Initial commit with welcome file

1 file changed, 1 insertion(+)

create mode 100644 welcome.txt

9 To check if local and “Working Directory” git repository are same, execute git status

(base) shamimakhtar@Shamims-MacBook-Air GitDemo % git remote add origin <https://github.com/YourUsername/GitDemo.git>

git push -u origin main

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 234 bytes | 234.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0)

To https://github.com/YourUsername/GitDemo.git

\* [new branch] main -> main

Branch 'main' set up to track remote branch 'main' from 'origin'.