

IT Project Work

Name
ID

Md Asfakur Rahat
BB13011

1. Cloning the repository Using SSH Key

```
ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github
$ git clone git@github.com:SahebRana/bjet13_group_2.git
Cloning into 'bjet13_group_2'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

2. Changing branch to development

```
ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github
$ cd bjet13_group_2

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (main)
$ git checkout development
Switched to a new branch 'development'
branch 'development' set up to track 'origin/development'.

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (developm
ent)
$ git pull
Already up to date.
```

3. Creating local Working branch

```
ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (developm
ent)
$ git checkout -b task2branch
Switched to a new branch 'task2branch'

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch)
$
```

4. Staging the edited files

```
ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch)
$ git add .

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch)
$ git status
On branch task2branch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   README.md
```

5. Commit changes to local branch then pulling development from remote

```
ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch)
$ git commit -m "Task 2: Added Used Technology & Features"
[task2branch 8a874fd] Task 2: Added Used Technology & Features
1 file changed, 25 insertions(+), 1 deletion(-)

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch)
$ git checkout development
Switched to branch 'development'
Your branch is up to date with 'origin/development'.

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (development)
$ git pull
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 12 (delta 3), reused 7 (delta 1), pack-reused 0
Unpacking objects: 100% (12/12), 1.97 MiB | 930.00 KiB/s, done.
From github.com:SahebRana/bjet13_group_2
   062dedc..733421a  development -> origin/development
Updating 062dedc..733421a
Fast-forward
 README.md          | 31 ++++++
 images/banner.jpg | Bin 0 -> 2095480 bytes
 2 files changed, 30 insertions(+), 1 deletion(-)
 create mode 100644 images/banner.jpg
```

6. Switching to local branch and merge development branch to local branch

```
ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (development)
$ git checkout task2branch
Switched to branch 'task2branch'

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch)
$ git merge development
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.
```

7. After resolving conflict continuing the merge

```
ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch|MERGING)
$ git status
On branch task2branch
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Changes to be committed:
  new file:   images/banner.jpg

Unmerged paths:
  (use "git add <file>..." to mark resolution)
  both modified: README.md

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch|MERGING)
$ git add .

ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch|MERGING)
$ git merge --continue
[task2branch 1551559] Merge branch 'development' into task2branch
```

Merge branch 'development' into task2branch

```
# Conflicts:
#   README.md
#
# It looks like you may be committing a merge.
# If this is not correct, please run
#   git update-ref -d MERGE_HEAD
# and try again.

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch task2branch
# All conflicts fixed but you are still merging.
#
# Changes to be committed:
#   modified:   README.md
#   new file:   images/banner.jpg
#
~
~
~
~
~
```

8. Pushing local branch to the GitHub

```
ARRAHAT777@DESKTOP-90069VH MINGW64 ~/Desktop/TERM 2/BJET-Github/bjet13_group_2 (task2branch)
$ git push --set-upstream origin task2branch
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 1.75 KiB | 1.75 MiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'task2branch' on GitHub by visiting:
remote:   https://github.com/SahebRana/bjet13_group_2/pull/new/task2branch
remote:
To github.com:SahebRana/bjet13_group_2.git
 * [new branch]      task2branch -> task2branch
branch 'task2branch' set up to track 'origin/task2branch'.
```

9. Finally Merging working branch into development branch by Creating Pull Request & Review Process

The screenshot displays a GitHub Pull Request interface. At the top, a comment from **AR-Rahat** (Collaborator) states: "Task 2: Added Used Technology & Features". Below this, a commit history shows two commits added by **AR-Rahat** 1 hour ago: "Task 2: Added Used Technology & Features" (commit hash 8a874fd) and "Merge branch 'development' into task2branch" (commit hash 1551559). A review request is shown where **AR-Rahat** requested a review from **SahebRana** 51 minutes ago. **SahebRana** (Owner) has approved the changes 49 minutes ago, with a comment "Okay". A link "View reviewed changes" is provided. At the bottom, a merge action is shown where **SahebRana** merged commit **571ccc5** into the **development** branch 49 minutes ago, with a "Revert" button available.