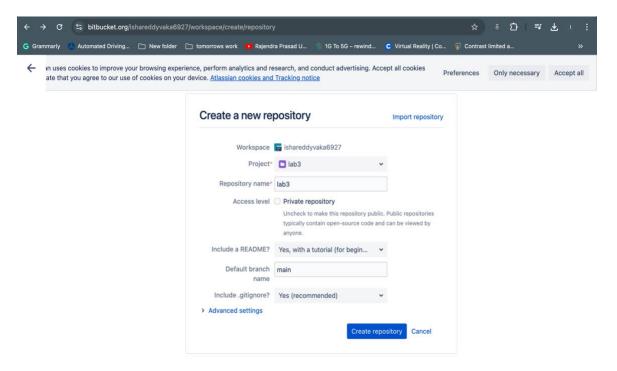
Ex. No: 3	Bitbucket Operations using Git		
06.08.2024	Dibucket Operations using Oil		

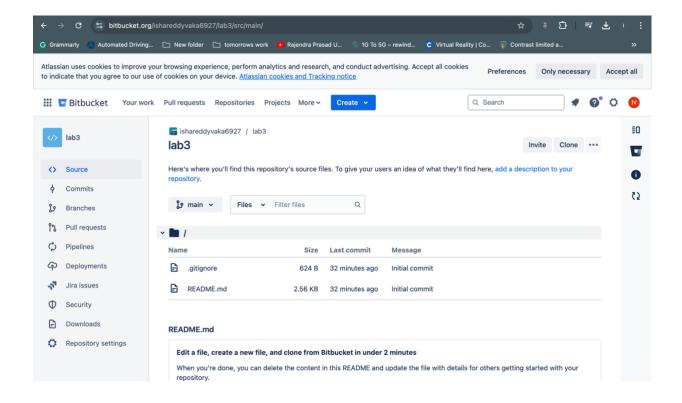
Aim:

To practice fundamental Git operations using Bitbucket, including repository creation, cloning, making changes, branching, pushing changes, collaborating through merge requests, and syncing changes.

Procedure:

1. Create a Repository





2. Cloning a Repository

a. Use git clone <repository_url> with the URL you copied from Bitbucket

```
[(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git clone https://ishareddyvaka@bitbucket.org/ishareddyvaka6927/lab3.git Cloning into 'lab3'... remote: Enumerating objects: 4, done. remote: Counting objects: 100% (4/4), done. remote: Compressing objects: 100% (4/4), done. remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0) Receiving objects: 100% (4/4), done.
```

3. Making Changes and Creating a Branch

a. Navigate into the cloned repository

(base) ishareddyvaka@Ishas-MacBook-Air lab3 % cd lab3

- b. Create a new text file named "filename.txt" using a text editor.
- c. Add some content to the "filename.txt" file.
- d. Save the file and return to the command line.
- e. Check the status of the repository

```
[(base) ishareddyvaka@Ishas-MacBook-Air lab3 % nano filename.txt
[(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git status
[On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
    (use "git add <file>..." to include in what will be committed)
        filename.txt
```

- f. Stage the changes for commit
- g. Commit the changes with a descriptive message "Edited_example.txt"

```
(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git add .

[(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git commit -m "Edited_example.txt"

[main 60ede15] Edited_example.txt

Committer: Isha reddy Vaka <ishareddyvaka@Ishas-MacBook-Air.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 filename.txt
```

- h. Create a new branch named "feature"
- i. Switch to the "feature" branch
- j. Pushing Changes to Bitbucket

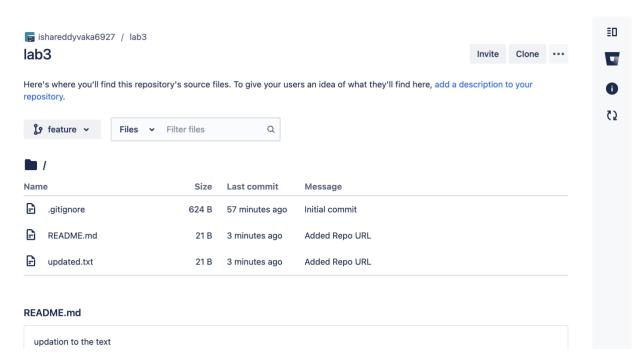
(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git checkout -b feature Switched to a new branch 'feature'

```
(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git push origin feature
Password for 'https://ishareddyvaka@bitbucket.org':
[Enumerating objects: 4, done.
[Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 368 bytes | 368.00 KiB/s, done.
[Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
[remote:
remote: Create pull request for feature:
remote: Create thtps://bitbucket.org/ishareddyvaka6927/lab3/pull-requests/new?source=feature&t=1
remote:
To https://bitbucket.org/ishareddyvaka6927/lab3.git
* [new branch] feature -> feature
```

- 4. Add Repository URL in a variable
 - a. Add Repository URL in a variable
 - b. Replace <repository_url> with the URL you copied from Bitbucket
 - c. Push the "feature" branch to Bitbucket
 - d. Check your Bitbucket repository to confirm that the new branch "feature" is available.

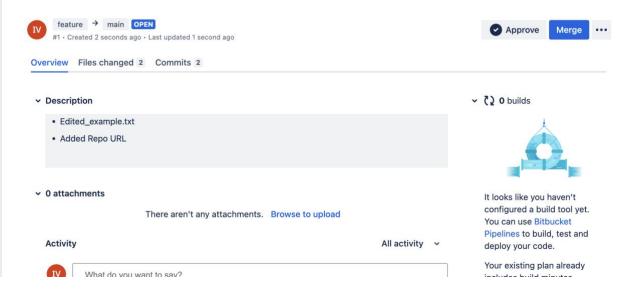
```
(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git add
 (base) ishareddyvaka@Ishas-MacBook-Air lab3 % git commit -m "Added Repo URL"
[[feature ecb6c4c] Added Repo URL
Committer: Isha reddy Vaka <ishareddyvaka@Ishas-MacBook-Air.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate. You can suppress this message by setting them explicitly. Run the following command and follow the instructions in your editor to edit
your configuration file:
      git config --global --edit
After doing this, you may fix the identity used for this commit with:
      git commit --amend --reset-author
 3 files changed, 2 insertions(+), 46 deletions(-)
 delete mode 100644 filename.txt
 create mode 100644 updated.txt
(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git push origin feature
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 336 bytes | 336.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create pull request for feature: remote: https://bitbucket.org/ishareddyvaka6927/lab3/pull-requests/new?source=feature&t=1
To https://bitbucket.org/ishareddyvaka6927/lab3.git
    60ede15..ecb6c4c feature -> feature
```

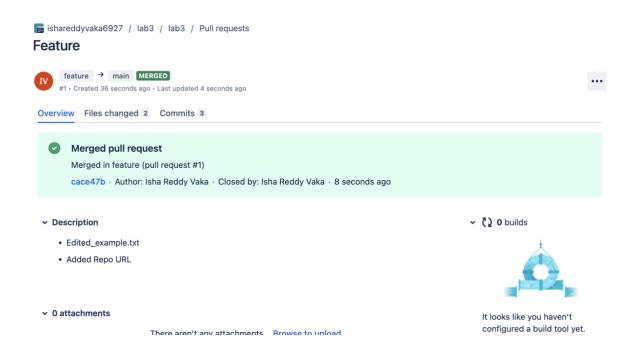
- 5. Collaborating through Merge Requests
 - a. Create a merge request on Bitbucket
 - b. Review and merge the merge request



shareddyvaka6927 / lab3 / lab3 / Pull requests

Feature





6. Syncing Changes

a. After the merge request is merged, update your local repository

```
(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
(base) ishareddyvaka@Ishas-MacBook-Air lab3 % git pull origin main
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 228 bytes | 114.00 KiB/s, done.
From https://bitbucket.org/ishareddyvaka6927/lab3
                     main
                                -> FETCH_HEAD
* branch
   4ef5569..cace47b main
                                -> origin/main
Updating 60ede15..cace47b
Fast-forward
README.md
              | 46 +
filename.txt
                 1
                 1 +
updated.txt
3 files changed, 2 insertions(+), 46 deletions(-)
delete mode 100644 filename.txt
create mode 100644 updated.txt
```

Result:

Therefore, we've successfully performed all the Bitbucket operations using Git.