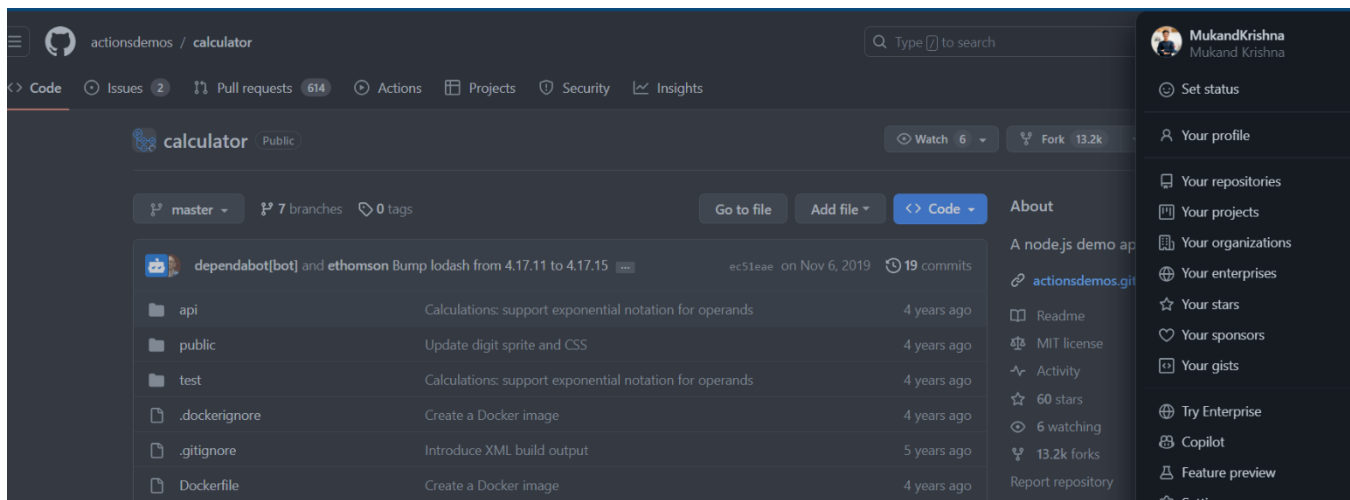


External Source Control with Azure Activity # 5

20K-0409 Mukand

After creating project

Task 1: Forking actionsdemos/calculator site:

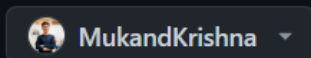


Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk ().*

Owner *



Repository name *

/ calculator


calculator is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)

A node.js demo application

Marketplace / Apps / Azure Pipelines



Application

Azure Pipelines


[Set up a plan](#)

Continuously build, test, and deploy to any platform and cloud

[GitHub](#) has verified that the application meets the [requirements for listing](#).

Azure Pipelines offers cloud-hosted pipelines for Linux, macOS, and Windows with 10 parallel jobs and unlimited minutes for open source projects.

[Any language, platform, and cloud](#)

 Azure DevOps

k200409@nu.edu.pk

Setup your Azure Pipelines project

Select your Azure DevOps organization

Mukand-Krishna

[Create a new organization](#)

Project name


Integrating External Source Control with Azure Pipelines

[Select an existing project](#)

Project visibility

Private

Choosing **Continue** means that you agree to our [Terms of Service](#), [Privacy Statement](#), and [Code of Conduct](#).



Install Azure Pipelines

Install on your personal account Mukand Krishna

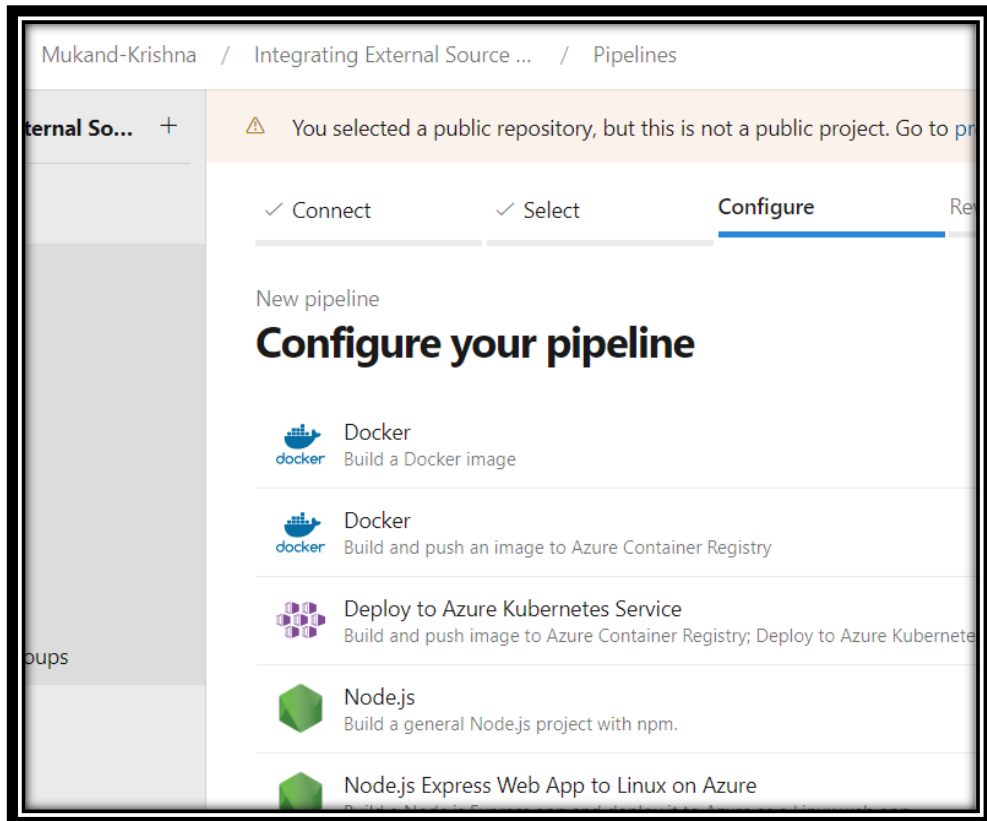
for these repositories:

☒ **All repositories**

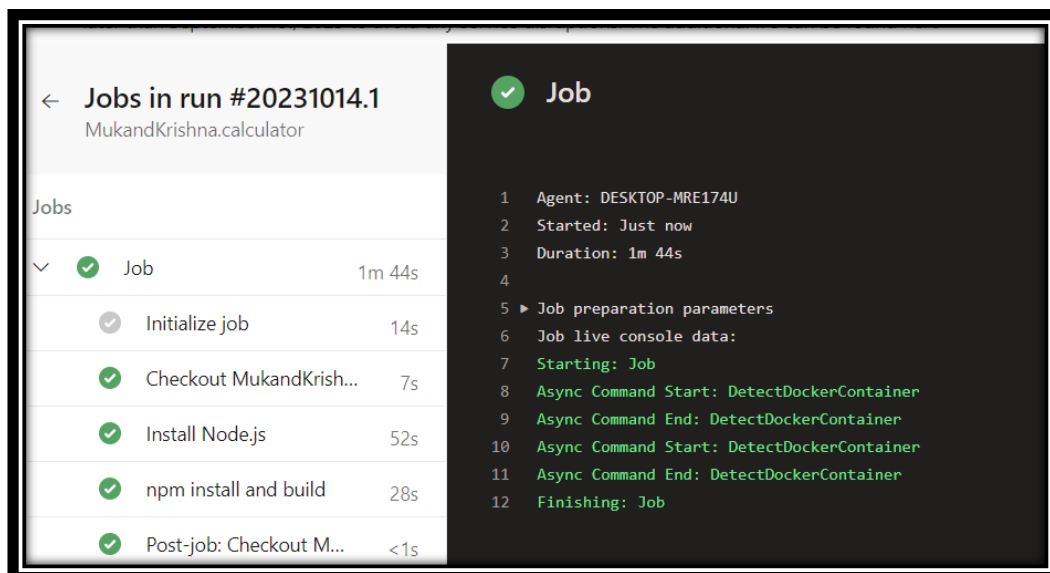
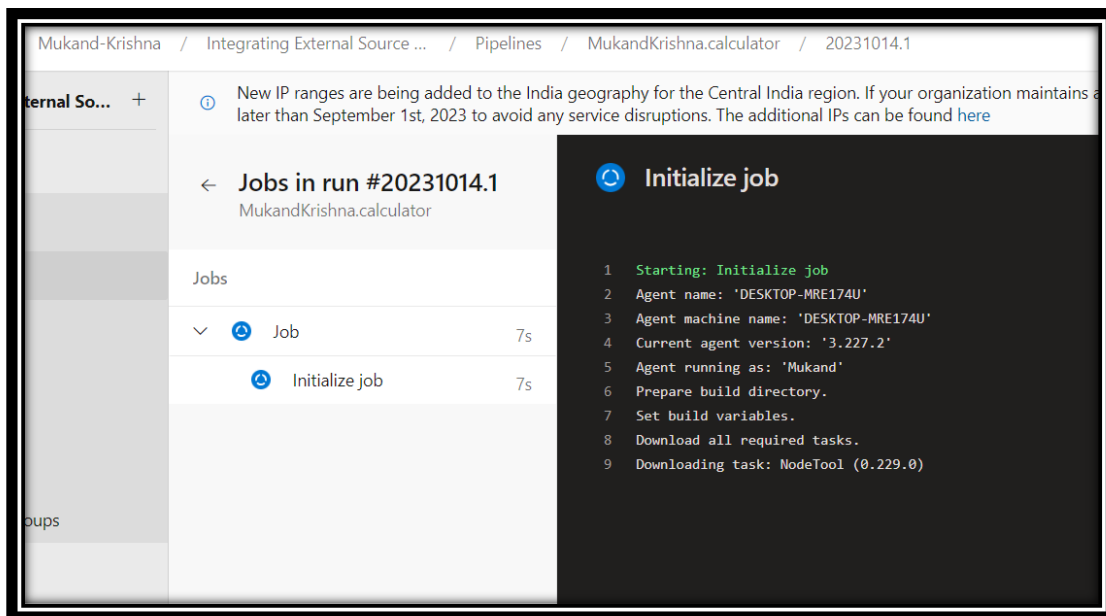
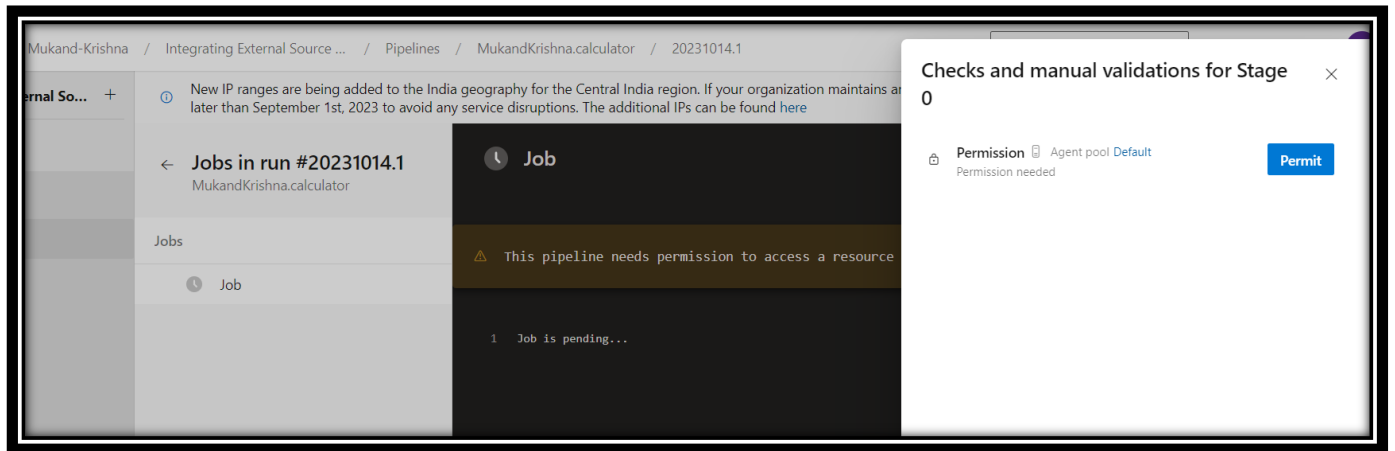
This applies to all current *and* future repositories owned by the resource owner. Also includes public repositories (read-only).

Task 2: Configuring your Azure Pipelines project

Creating Pipeline:



Made self-hosted agent in pc because agent wasn't granted after filling form.



```
< Jobs in run #20231014.1
MukandKrishna.calculator

Jobs

v [x] Job 1m 44s

  [x] Initialize job 14s
  [x] Checkout MukandKrish... 7s
  [x] Install Node.js 52s
  [x] npm install and build 28s
  [x] Post-job: Checkout M... <1s
  [x] Finalize Job <1s


>> Connect:

Enter server URL > https://dev.azure.com/Mukand-Krishna/
Enter authentication type (press enter for PAT) >
Enter personal access token > *****
Connecting to server ...

>> Register Agent:


Enter agent pool (press enter for default) >
Enter agent name (press enter for DESKTOP-MRE174U) >
Scanning for tool capabilities.
Connecting to the server.
Successfully added the agent
Testing agent connection.
Enter work folder (press enter for _work) >
2023-10-14 14:44:44Z: Settings Saved.
Enter run agent as service? (Y/N) (press enter for N) > N
Enter configure autologon and run agent on startup? (Y/N) (press enter f



C:\agent>.\run.cmd
Scanning for tool capabilities.
Connecting to the server.
2023-10-14 14:47:07Z: Listening for Jobs
2023-10-14 14:51:58Z: Running job: Job
2023-10-14 14:53:50Z: Job Job completed with result: Succeeded
```

Manually run by  Mukand Krishna


[View change](#)


Repository and version

 MukandKrishna/calculator


 master  19d2878b


Time started and elapsed

 Today at 7:50 PM


 1m 55s

Related



 0 work items

 0 artifacts

Tests and coverage

 [Get started](#)

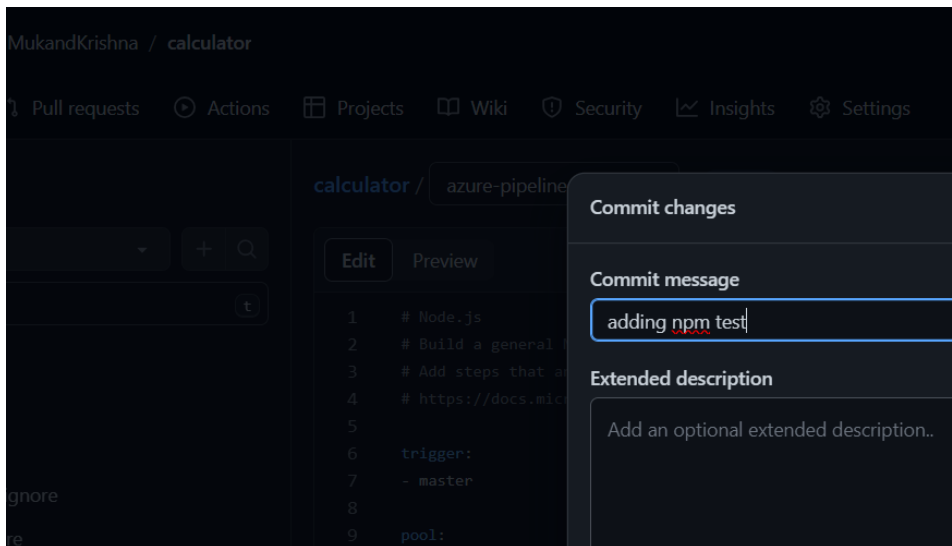
Jobs

Name	Status	Duration
 Job	Success	 1m 44s

```
Enter work folder (press enter for _work) >
2023-10-14 14:44:44Z: Settings Saved.
Enter run agent as service? (Y/N) (press enter for N) > N
Enter configure autologon and run agent on startup? (Y/N) (press e

C:\agent>.\run.cmd
Scanning for tool capabilities.
Connecting to the server.
2023-10-14 14:47:07Z: Listening for Jobs
2023-10-14 14:51:58Z: Running job: Job
2023-10-14 14:53:50Z: Job Job completed with result: Succeeded
2023-10-14 15:11:13Z: Running job: Job
2023-10-14 15:12:06Z: Job Job completed with result: Succeeded
2023-10-14 15:20:44Z: Running job: Job
2023-10-14 15:21:25Z: Job Job completed with result: Succeeded
2023-10-14 15:35:55Z: Running job: Job
2023-10-14 15:36:36Z: Job Job completed with result: Succeeded
2023-10-14 15:48:52Z: Running job: Job
2023-10-14 15:49:35Z: Job Job completed with result: Succeeded
2023-10-14 15:49:38Z: Running job: Job
2023-10-14 15:50:19Z: Job Job completed with result: Succeeded
2023-10-14 16:02:56Z: Running job: Job
2023-10-14 16:03:37Z: Job Job completed with result: Succeeded
```

Task 3: Modifying a YAML build pipeline definition



Description	Stages	
<div><div>✓</div><div>#20231014.2 • adding npm test</div><div>Individual CI for master 6d69b53a</div></div>	<div><div>✓</div></div>	<div><div>3m ago</div><div>56s</div></div>
<div><div>✓</div><div>#20231014.1 • Update azure-pipelines.yml for Azure Pipelines</div><div>Manually triggered for master 19d2878b</div></div>	<div><div>✓</div></div>	<div><div>23m ago</div><div>1m 55s</div></div>

←

Jobs in run #20231014.2

MukandKrishna.calculator

Jobs

✓

Job

40s

✓

Initialize job

<1s

✓

Checkout MukandKrish...

6s

✓

Install Node.js

1s

✓

npm install, build, and...

30s

✓

Post-job: Checkout M...

<1s

✓

Finalize Job

<1s

✓

Finalize Job

1 Starting: Finalize Job

2 TestResultLogParser: JasmineTestResultParser : Starting jas

3 TestResultLogParser: JestTestResultParser : Starting jest t

4 TestResultLogParser: MochaTestResultParser : Starting mocha

5 TestResultLogParser: PythonTestResultParser : Starting pyth

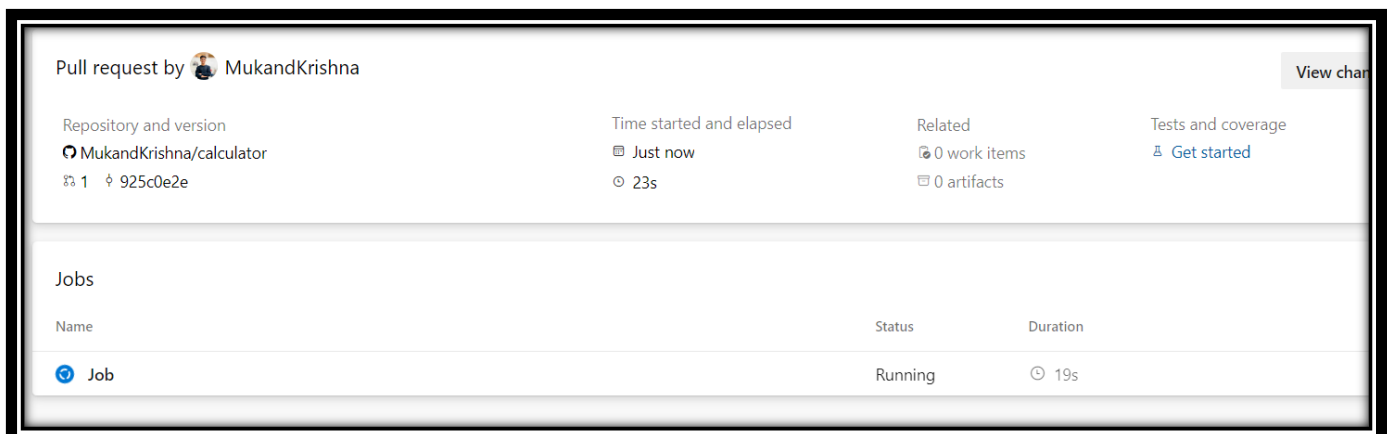
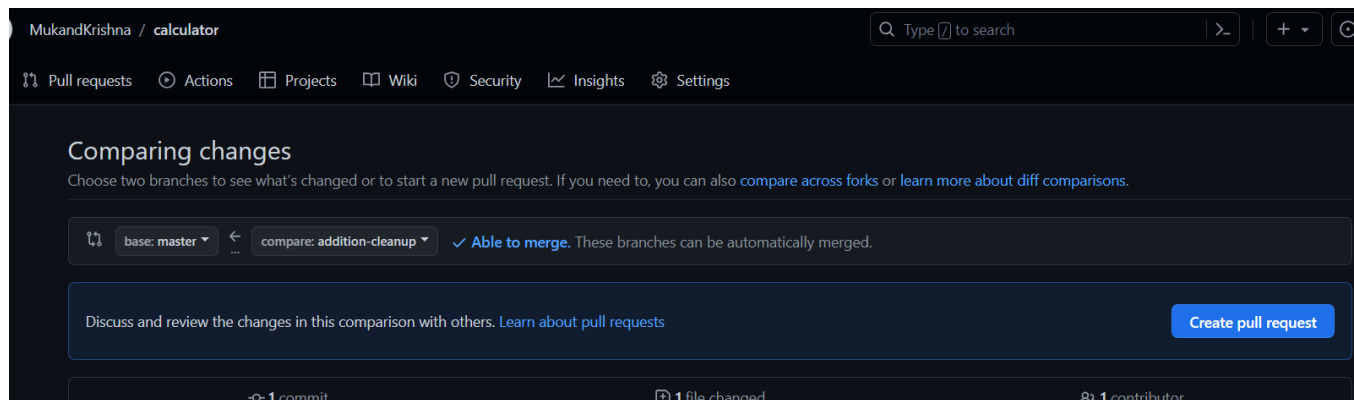
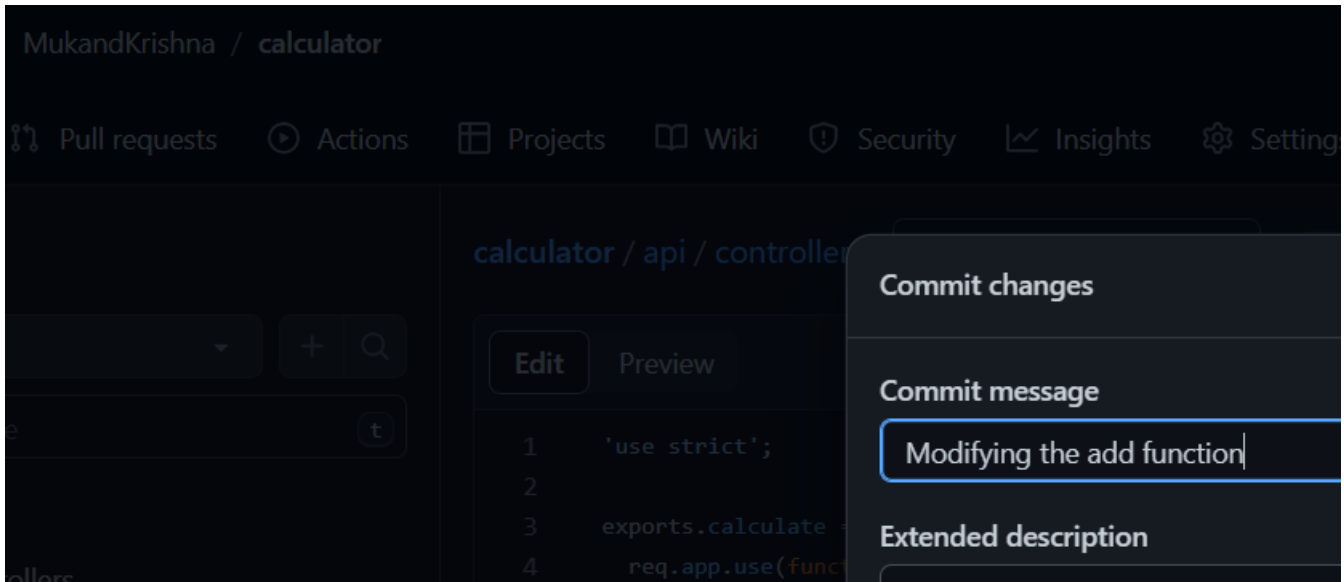
6 TestResultLogParser: Waiting for log plugin to finish, pend

7 Cleaning up task key

8 Start cleaning up orphan processes.

9 Finishing: Finalize Job






Task 4: Proposing a change via GitHub pull request




Task 5: Using the broken pull request to improve the project

Checks were passed:

Add more commits by pushing to the **addition-cleanup** branch on **MukandKrishna/calculator**.

-  **Require approval from specific reviewers before merging**
Branch protection rules ensure specific people approve pull requests before they're merged.
-  **All checks have passed**
1 successful check
-   **MukandKrishna.calculator** Successful in 44s — Build #20231014.3 succeeded
-  **This branch has no conflicts with the base branch**



Add more commits by pushing to the **addition-cleanup** branch on **MukandKrishna/calculator**.


 **Merge pull request #2 from MukandKrishna/addition-cleanup**

Modifying the add function #1

This commit will be authored by k200409@nu.edu.pk

Confirm merge **Cancel**

  **MukandKrishna** merged commit **5fc50a0** into **master** now
1 check was pending

 **Pull request successfully merged and closed**
You're all set—the **addition-cleanup** branch can be safely deleted.

Task 6: Adding a build status badge

