Name: Rajvardhan Ganpatrao Patil
Roll No: 40 Div: A

Assignment

1.Using GitLab web IDE Git commands to interact with Gitlab

```
Admin@IMITNM-DES-0032 MINGW64 ~ (master)
$ cd d:

Admin@IMITNM-DES-0032 MINGW64 /d
$ mkdir JavaProg

Admin@IMITNM-DES-0032 MINGW64 /d
$ cd JavaProg

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg
$ git clone https://gitlab.com/rajgpatil/java.git
Cloning into 'java'...
remote: Enumerating objects: 30, done.
remote: Total 30 (delta 0), reused 0 (delta 0), pack-reused 30 (from 1)
Receiving objects: 100% (30/30), 6.40 KiB | 6.40 MiB/s, done.
Resolving deltas: 100% (7/7), done.

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg
$ cd java

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$ vi JavaDemo.java

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$ git add .

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$ git commit -m "add by local machine.."
[main 0c828a5] add by local machine..
 1 file changed, 2 insertions(+), 1 deletion(-)

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$
```

```
Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 400 bytes | 400.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
To https://gitlab.com/rajgpatil/java.git
   fdde084..0c828a5  main -> main

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$
```

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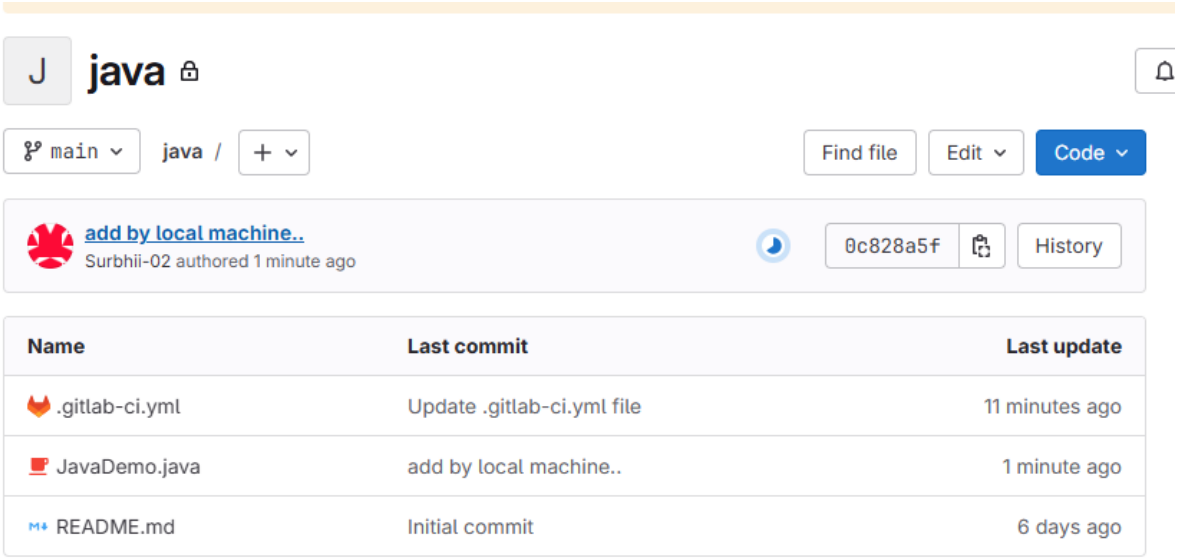

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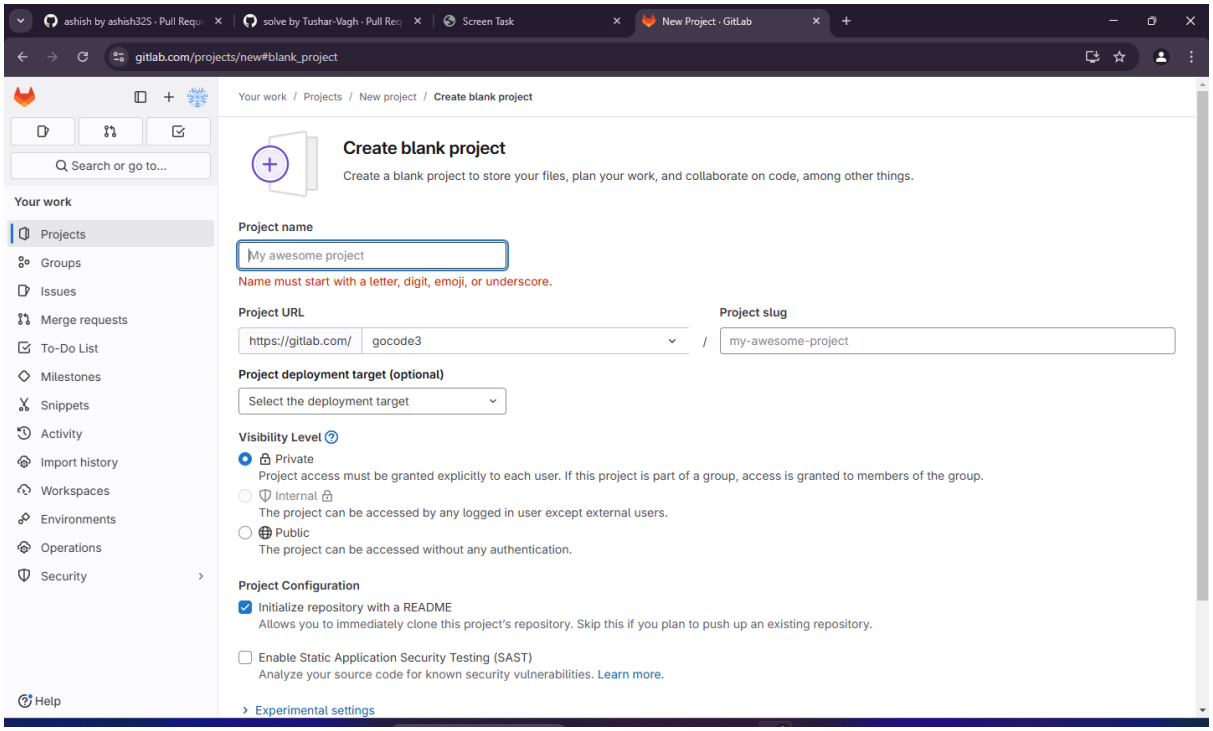
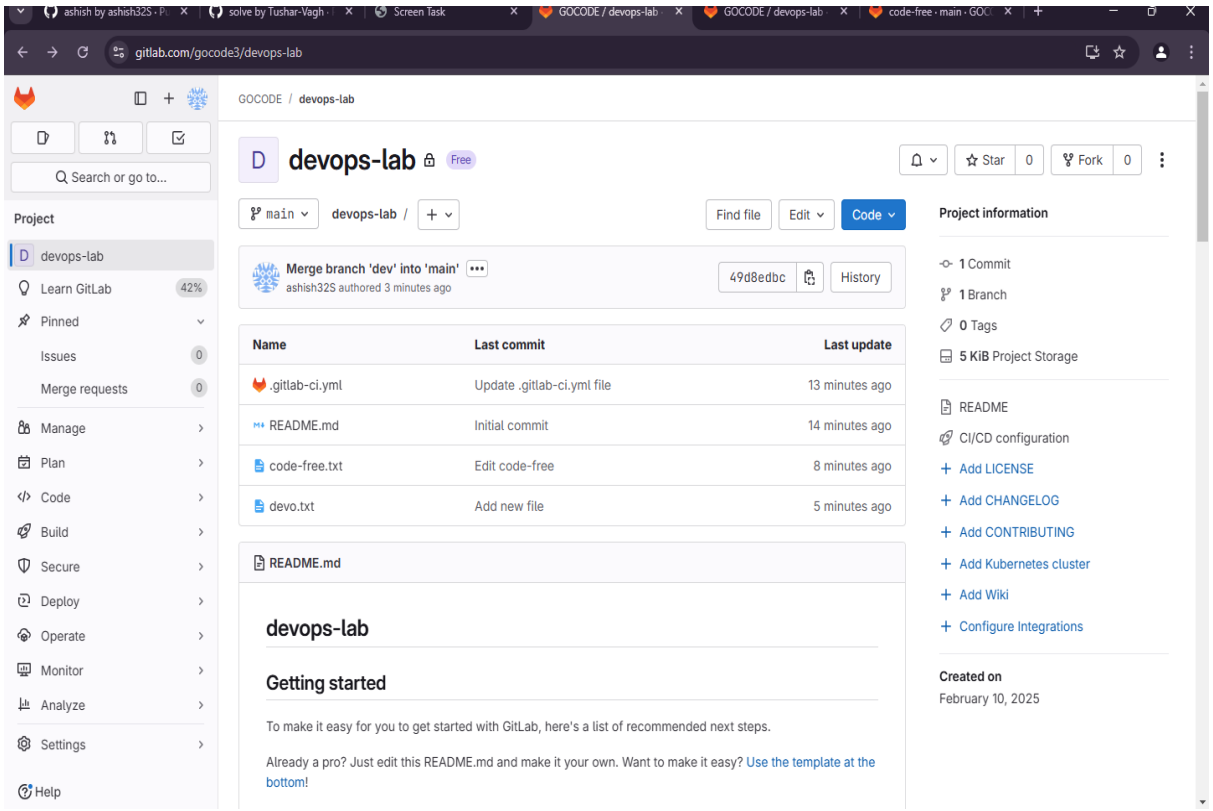
2 Performing merge requests using GitLab





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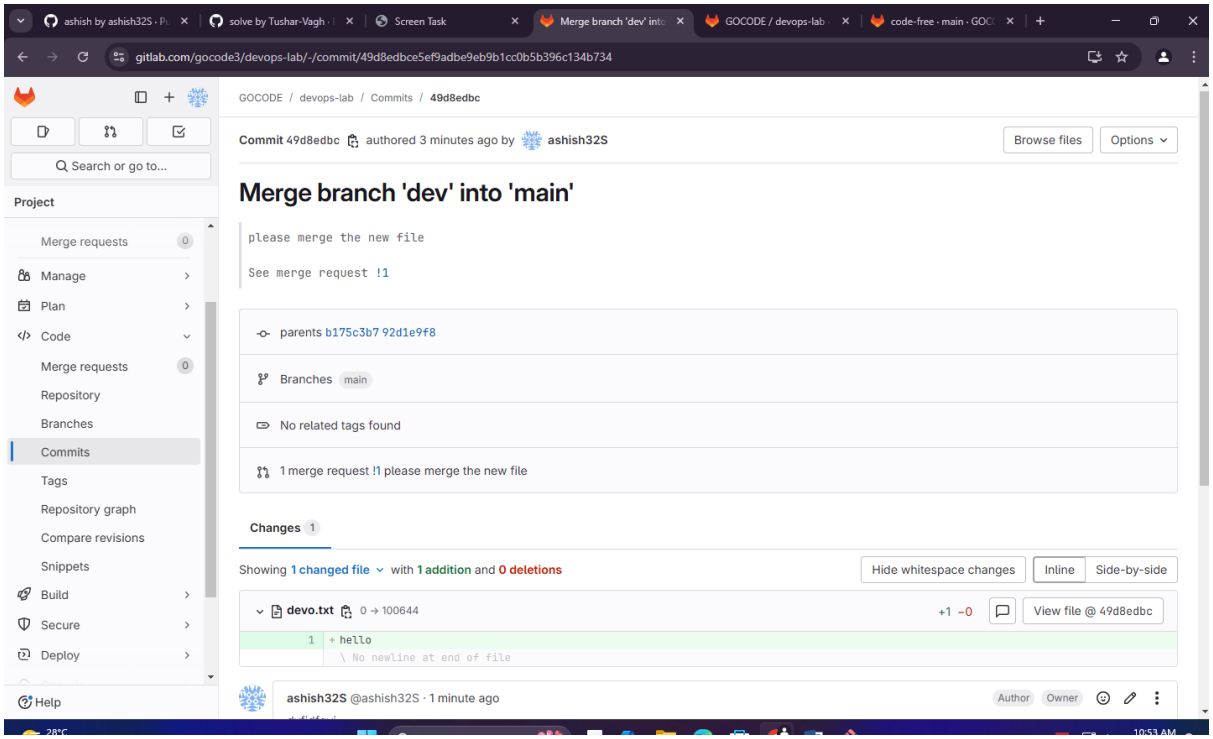
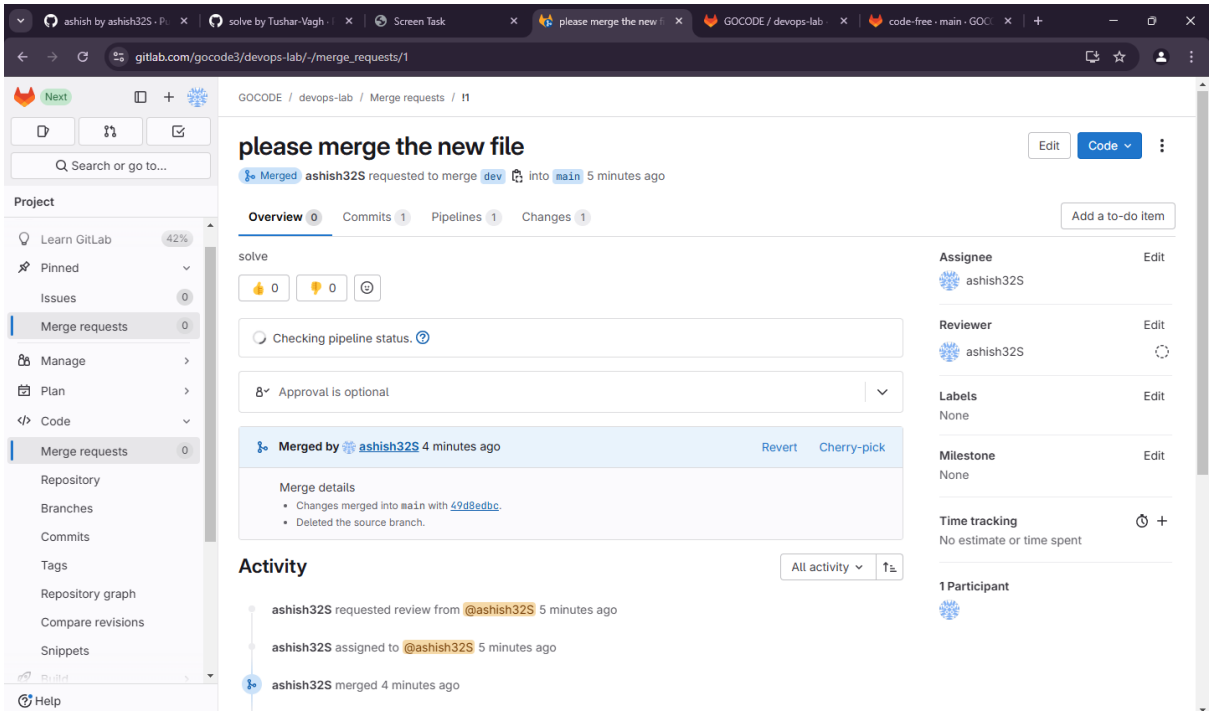
Merge the dev branch into main





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3. Workflow management in GitLab

```
CI/CD
# This file is a template, and might need editing before it works on your project.
# This is a sample GitLab CI/CD configuration file that should run without any modifications.
# It demonstrates a basic 3 stage CI/CD pipeline. Instead of real tests or scripts,
# it uses echo commands to simulate the pipeline execution.
#
# A pipeline is composed of independent jobs that run scripts, grouped into stages.
# Stages run in sequential order, but jobs within stages run in parallel.
#
# For more information, see: https://docs.gitlab.com/ee/ci/yaml/#stages
#
# You can copy and paste this template into a new `.gitlab-ci.yml` file.
# You should not add this template to an existing `.gitlab-ci.yml` file by using the `include:` keyword.
#
# To contribute improvements to CI/CD templates, please follow the Development guide at:
# https://docs.gitlab.com/ee/development/cicd/templates.html
# This specific template is located at:
# https://gitlab.com/gitlab-org/gitlab/-/blob/master/lib/gitlab/ci/templates/Getting-Started.gitlab-ci.yml

stages:          # List of stages for jobs, and their order of execution
  - build
  - test


before_script:
  - apt-get update && apt-get install -y openjdk-17-jdk #Install Java

build:       # This job runs in the build stage, which runs first.
  stage: build
  script:
    - javac JavaDemo.java #Run java File
    - ls -l
  artifacts:
    paths:
      - JavaDemo.class
  only:
    - main


test:   # This job also runs in the test stage.
  stage: test    # It can run at the same time as unit-test-job (in parallel).
  script:
    - ls -l
    - java JavaDemo
  only:
    - main
```

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