

Prepared by

Name: Tatenda Mangere

Student Number: 77700

Exercise 9 Advanced Software Engineering

```
USR@DESKTOP-QJ5CCT2 MINGW64 ~/Desktop/github-actions-test
$ git init
Initialized empty Git repository in C:/Users/USR/Desktop/github-actions-test/.git/
```

1.

Initialize git

```
USR@DESKTOP-QJ5CCT2 MINGW64 ~/Desktop/github-actions-test (master)
$ git checkout -b main
Switched to a new branch 'main'

USR@DESKTOP-QJ5CCT2 MINGW64 ~/Desktop/github-actions-test (main)
$ mkdir .github && cd .github

USR@DESKTOP-QJ5CCT2 MINGW64 ~/Desktop/github-actions-test/.github (main)
$ mkdir workflows && cd workflows
```

2.

Create main branch and directories

```
EXERCISE_8:
  title: "Exercise 8 ASDT GIT"
  name: "Tatenda Mangere"
  Student_Number: 77700

  TASKS:
    step: 1
    description: "Create a new remote repository"

    step: 2
    description: "Push all commits from Exercise 6a/6b to the remote repository"

    step: 3
    description: "Play with the git remote, git fetch, git pushh, git pull and git branch"

    step: 4
    description: "Execute fast-forward merge"

    step: 5
    description: "Execute a 3-way merge"

    step: 6
    description: "Resolve conflict"

    step: 7
    description: "Upload the repository to main"
```

3.

Create the “*actions.yml*” file and paste the code

```

USR@DESKTOP-QJ5CCT2 MINGW64 ~/Desktop/github-actions-test/.github/workflows (main)
$ git add .
warning: in the working copy of '.github/workflows/actions.yml', LF will be replaced by CRLF the next time Git touches it

USR@DESKTOP-QJ5CCT2 MINGW64 ~/Desktop/github-actions-test/.github/workflows (main)
$ git commit -m "Initial Commit"
[main (root-commit) 514f446] Initial Commit
1 file changed, 29 insertions(+)
create mode 100644 .github/workflows/actions.yml

```

4.

Commit the changes

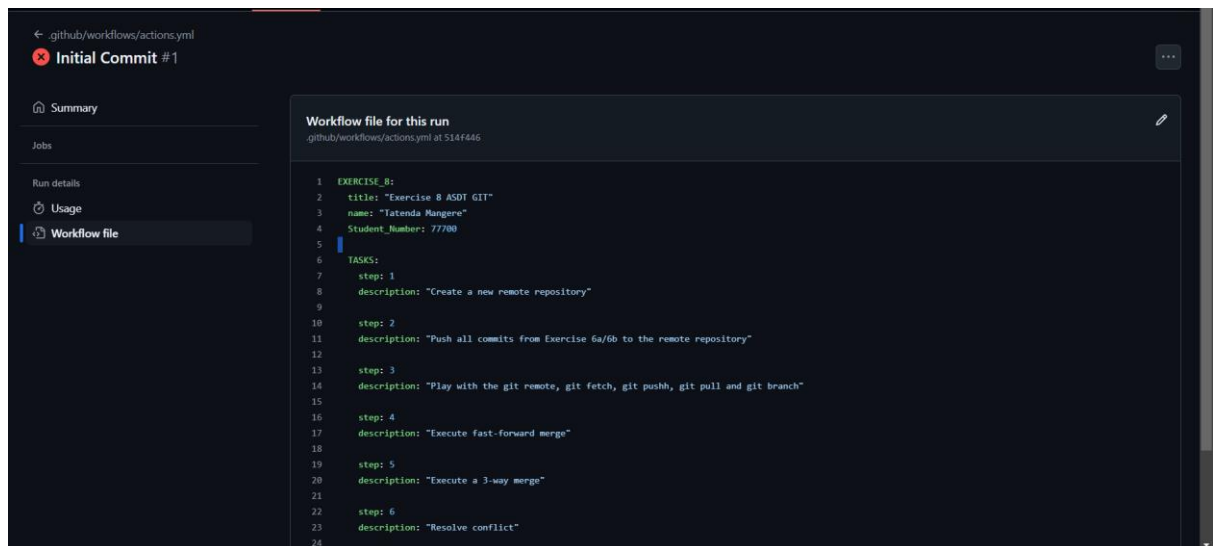
5.

```

USR@DESKTOP-QJ5CCT2 MINGW64 ~/Desktop/github-actions-test (main)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (5/5), 614 bytes | 43.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/TatendaAndreaMangere/github-actions-test.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

```

Push the files



The screenshot shows the GitHub Actions interface for an initial commit. The left sidebar contains a navigation menu with options: Summary, Jobs, Run details, Usage, and Workflow file. The 'Workflow file' option is selected. The main area displays the workflow file for the run, titled 'Workflow file for this run' with the path 'github/workflows/actions.yml at 514f446'. The workflow file content is as follows:

```

1 EXERCISE_8:
2   title: "Exercise 8 ASOT GIT"
3   name: "Tatenda Mangere"
4   Student_Number: 77700
5
6 TASKS:
7   step: 1
8   description: "Create a new remote repository"
9
10  step: 2
11  description: "Push all commits from Exercise 6a/6b to the remote repository"
12
13  step: 3
14  description: "Play with the git remote, git fetch, git push, git pull and git branch"
15
16  step: 4
17  description: "Execute fast-forward merge"
18
19  step: 5
20  description: "Execute a 3-way merge"
21
22  step: 6
23  description: "Resolve conflict"
24

```

6.

Status workflow