Ex No. Create GitHub repository for Ci/CD and configure continuous Date: integration with GitHub Actions

Aim:

To create GitHub repository for Ci/CD and configure continuous integration with GitHub Actions.

Algorithm:

Step 1:Create a GitHub Repository

Log in to GitHub.

Click on the "+" icon and select New Repository.

Give your repository a name, set visibility (public or private), and create it.

Step 2:Add Your Project Files

Add the necessary project files to your repository (e.g., your code, tests).

Push your files to GitHub.

Step 3: Set Up GitHub Actions

Create a folder called .github/workflows in your repository.

Inside that folder, create a workflow file (usually named with .yml or .yaml extension).

Define the actions to be performed (for example, build the code, run tests, and set up the environment).

Step 4: Commit and Push Changes

Add your changes and push them to GitHub.

The GitHub Actions CI pipeline will automatically trigger on every push to your repository.

Step 5: Monitor the Workflow

Go to the Actions tab in your GitHub repository to see the status of the workflows.

If there are issues, check the logs to identify the problem.

PROGRAM:

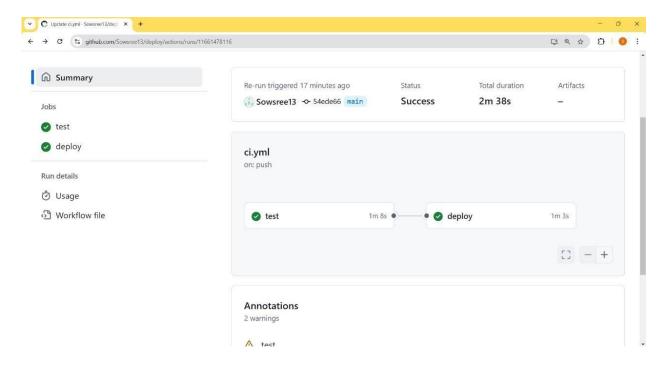
```
import unittest from main import
bye, hello class
TestMain(unittest.TestCase): def
test_hello(self):
    self.assertEqual(hello(), "hi")
  def test_bye(self):
    self.assertEqual(bye(), "bye")
if _name_ == "_main_":
unittest.main()
test_main.py def
hello(): return "hi"
def bye():
return "bye"
print(hello())
```

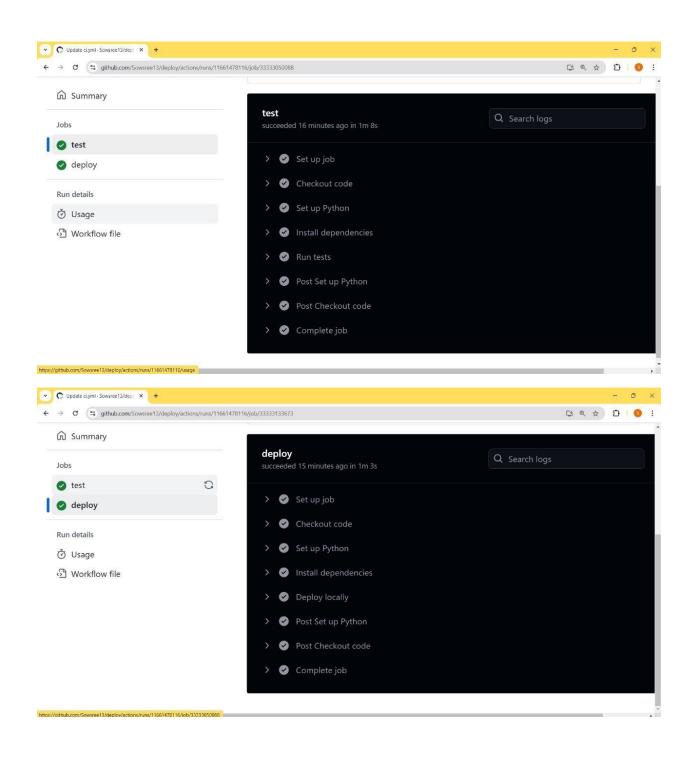
```
main.py name: CI
Workflow
on: push:
branches:
- main
jobs:
lint:
  name: Lint code base
           ubuntu-latest
runs-on:
steps:
- name: Checkout code
                         uses:
 actions/checkout@v2
- name: Run Super-Linter
                           uses:
 github/super-linter@v4
                           env:
     DEFAULT_BRANCH: main
     GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
 test:
  name: Run Unit Tests
runs-on:
           ubuntu-latest
steps:
- name: Checkout code
                         uses:
 actions/checkout@v2
```

- name: Set up Python uses:
actions/setup-python@v2
with:
python-version: '3.x'

name: Run Tests run: python -m unittest discover superlinter.yml

OUTPUT:





RESULT:
The experiment to Create GitHub repository for Ci/CD and configure continuous integration
with GitHub Actions is implemented successsfully.
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