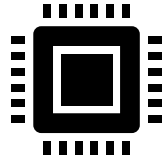


Lab 6



CSE233: Agile

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22P0047

Exercise 1: Run Automated Tests

The screenshot shows a web browser window displaying a GitHub Actions workflow run. The browser tabs include 'CSE233 (UG2018) - Agile Softw...', 'Lab 6.pdf', 'Meet - rxc-zflow-zsz', 'CSE361 Course project', and 'Add workflow to run pytest - yo...'. The address bar shows the URL 'github.com/youssef-elshorbagy/lab-6/actions/runs/19015608067/job/54303002003'. The GitHub interface shows the repository 'youssef-elshorbagy / lab-6' with a search bar and navigation links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The 'Run Automated Tests' section is active, showing a workflow run 'Add workflow to run pytest #1' with a 'Re-run all jobs' button. The left sidebar lists 'Summary', 'Jobs', 'Run details', 'Usage', and 'Workflow file'. The 'Jobs' section shows a single job 'test' with a status of 'succeeded now in 8s'. The job details show a list of steps: 'Set up job', 'Checkout Repository', 'Set up Python', 'Install dependencies', 'Run pytest', 'Post Set up Python', 'Post Checkout Repository', and 'Complete job', each with a duration.

Step	Duration
Set up job	0s
Checkout Repository	1s
Set up Python	0s
Install dependencies	3s
Run pytest	1s
Post Set up Python	0s
Post Checkout Repository	0s
Complete job	0s

Exercise 2: Using Matrix Build Across Operating Systems

The screenshot shows a GitHub Actions workflow run for the repository 'youssef-elshorbagy / lab-6'. The workflow is named 'Run tests on Ubuntu, Windows, and macOS #2' and has a status of 'Success'. It was triggered by a push to the 'main' branch by user 'youssef-elshorbagy' 1 minute ago. The total duration of the run is 46 seconds. The workflow file is 'pytest.yml' and it runs on push events. The jobs section shows three jobs: 'test (ubuntu-latest)', 'test (windows-latest)', and 'test (macos-latest)', all of which passed. The matrix test results are as follows:

Job	Duration
test (macos-latest)	26s
test (ubuntu-latest)	11s
test (windows-latest)	41s

Exercise 3: Uploading an Artifact

The screenshot shows a GitHub Actions workflow summary for a file named `pytest.yml`. The workflow was triggered by a push to the `main` branch by user `youssef-elshorbagy` 5 minutes ago. The status is **Success**, with a total duration of **47s** and **3** artifacts produced.

Jobs:

- test (ubuntu-latest)
- test (windows-latest)
- test (macos-latest)

Run details:

- Usage
- Workflow file

Matrix test:

- 3 jobs completed

Artifacts: Produced during runtime

Name	Size	Digest
pytest-report_macos-latest	402 Bytes	sha256:c43c7cc4d30a7facdad152b045e697e826251d502ee...
pytest-report_ubuntu-latest	361 Bytes	sha256:4c1aa5180466391d2ea5421e7e7197c4ec1c90303e7...
pytest-report_windows-latest	361 Bytes	sha256:165015a2cc5e01c89dd8bb85dbb67b2bc0be8771838...

And finally, the downloaded `pytest-report.xml`

```
File Edit View
<?xml version="1.0" encoding="utf-8"?><testsuites name="pytest tests"><testsuite name="pytest" errors="0" failures="0" skipped="0" tests="2" time="0.029"
timestamp="2025-11-02T17:24:43.403085+00:00" hostname="runnervm8crn1"><testcase classname="scripts.test_math_utils" name="test_add" time="0.001" /><testcase
classname="scripts.test_math_utils" name="test_subtract" time="0.001" /></testsuite></testsuites>
```