

5.4 Demonstrate the CI Pipeline Works as Expected

The CI pipeline was demonstrated to function as intended through both successful and failing executions.

To trigger a failing execution, the checkMoveAngle assertion was deliberately modified from assert(allCorrectAngle) to assert(!allCorrectAngle). When this change was pushed, the GitHub Actions automatically triggered the pipeline and failed during the test execution stage. As a result, the build was marked as failed.

The assertion was then reverted to its correct form, and the change was pushed. This once again triggered the pipeline automatically; however this time the tests all passed and the pipeline completed successfully.

These scenarios demonstrate that the pipeline correctly executes automated tests, detects regressions, and prevents faulty code from being integrated. I have included a screenshot below of both the failed and the passed GitHub Action.

The screenshot shows two GitHub CI logs side-by-side. The top log is for commit `dcda281` and is marked as successful (green checkmark). The bottom log is for commit `a8a8165` and is marked as failed (red X). Both logs show they were run on the `master` branch, took approximately 1 minute and 10 seconds, and were triggered 11 minutes ago.

Commit	Status	Time	Branch
<code>dcda281</code>	Success (Green Checkmark)	1m 10s	master
<code>a8a8165</code>	Failure (Red X)	1m 18s	master