

Министр науки и высшего образования Российской Федерации

**Федеральное государственное автономное образовательное учреждение
высшего образования**

«Национальный исследовательский университет ИТМО»

Факультет информационных технологий и программирования

Лабораторная работа №2

Выполнил студент группы №М3101:

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Проверил:

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Санкт-Петербург

2023

1) Создадим новый action

Choose a workflow

Build, test, and deploy your code. Make code reviews, branch management, and issue triaging work the way you want. Select a workflow to get started.

Skip this and [set up a workflow yourself](#) →

Q Search workflows

Suggested for this repository

Python Package using Anaconda
By GitHub Actions

Create and test a Python package on multiple Python versions using Anaconda for package management.

Configure

Python

Publish Python Package
By GitHub Actions

Publish a Python Package to PyPI on release.

Configure

Python

Django
By GitHub Actions

Build and Test a Django Project

Configure

Python

Pylint
By GitHub Actions

Lint a Python application with pylint.

Configure

Python

Python application
By GitHub Actions

Create and test a Python application.

Configure

Python

Python package
By GitHub Actions

Create and test a Python package on multiple Python versions.

Configure

Python

2) Запишем код в файл yml

Files

lab_5

Go to file

- github/workflows
 - main.yml
- docs
- tests
- tests_report
- gitignor
- circle.py
- rectangle.py
- square.py
- triangle.py

geometric_lib / github / workflows / main.yml

Khristalov Update main.yml

2357285 - yesterday History

Code Blame 27 lines (25 loc) - 653 Bytes Code 55% faster with GitHub Copilot

```
1 name: CI
2 on:
3   push:
4     branches: [ "lab_5" ]
5
6 jobs:
7   run_tests_job_windows:
8     runs-on: windows-latest
9     steps:
10      - name: Checkout code
11        uses: actions/checkout@v4
12      - uses: actions/setup-python@v4
13        with:
14          python-version: "3.10"
15      - name: run tests
16        run: python -m unittest discover -s tests -p "Tests.py"
17
18   run_tests_job_ubuntu:
19     runs-on: ubuntu-latest
20     steps:
21      - name: Checkout code
22        uses: actions/checkout@v4
23      - uses: actions/setup-python@v4
24        with:
25          python-version: "3.10"
26      - name: run tests
27        run: python -m unittest discover -s tests -p "Tests.py"
```

3) Отчеты по работе workflow(windows)

- > Set up job 15
- > Checkout code 35
- > Run actions/setup-python@v4 05

```
50
51 =====
52 FAIL: testZeroSide (testRectangle.RectangleTestCasePerimeter)
53 -----
54 Traceback (most recent call last):
55   File "D:\a\geometric_lib\geometric_lib\tests\testRectangle.py", line 32, in testZeroSide
56     self.assertEqual(rectangle.perimeter(0, 20), 20)
57 AssertionError: 40 != 20
58
59 =====
60 FAIL: testInvalidArgument (testSquare.SquareTestCaseArea)
61 -----
62 Traceback (most recent call last):
63   File "D:\a\geometric_lib\geometric_lib\tests\testSquare.py", line 9, in testInvalidArgument
64     self.assertRaises(ValueError, square.area, -1)
65 AssertionError: ValueError not raised by area
66
```

run_tests.job_windows

failed yesterday in 9s

🔍 Search logs



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73 AssertionError: ValueError not raised by perimeter
74
75 =====
76 FAIL: testInvalidArgument (testTriangle.TriangleTestCaseArea)
77 -----
78 Traceback (most recent call last):
79   File "D:\a\geometric_lib\geometric_lib\tests\testTriangle.py", line 9, in testInvalidArgument
80     self.assertRaises(ValueError, triangle.area, -1, -1)
81 AssertionError: ValueError not raised by area
82
83 =====
84 FAIL: testInvalidArgument (testTriangle.TriangleTestCasePerimeter)
85 -----
86 Traceback (most recent call last):
87   File "D:\a\geometric_lib\geometric_lib\tests\testTriangle.py", line 29, in testInvalidArgument
88     self.assertRaises(ValueError, triangle.perimeter, -1, -1, -1)
89 AssertionError: ValueError not raised by perimeter
90
91 =====
92 FAIL: testNotExistTriangle (testTriangle.TriangleTestCasePerimeter)
93 -----
94 Traceback (most recent call last):
95   File "D:\a\geometric_lib\geometric_lib\tests\testTriangle.py", line 26, in testNotExistTriangle
96     self.assertRaises(ValueError, triangle.perimeter, 1, 2, 3)
97 AssertionError: ValueError not raised by perimeter
98
99 =====
100 Ran 36 tests in 0.003s
101
102 FAILED (failures=11)
103 Error: Process completed with exit code 1.
```

- Post Run actions/setup-python@v4 05
- > Post Checkout code 05
- > Complete job 05

4) (ubuntu)

- > Set up job
- > Checkout code
- > Run actions/setup-python@v4

```
50 AssertionError: ValueError not raised by perimeter
51
52 =====
53 FAIL: testZeroSide (testRectangle.RectangleTestCasePerimeter)
54 -----
55 Traceback (most recent call last):
56   File "/home/runner/work/geometric_lib/geometric_lib/tests/testRectangle.py", line 32, in testZeroSide
57     self.assertEqual(rectangle.perimeter(0, 20), 20)
58 AssertionError: 40 != 20
59
60 =====
61 FAIL: testInvalidArgument (testSquare.SquareTestCaseArea)
62 -----
63 Traceback (most recent call last):
64   File "/home/runner/work/geometric_lib/geometric_lib/tests/testSquare.py", line 9, in testInvalidArgument
65     self.assertRaises(ValueError, square.area, -1)
66 AssertionError: ValueError not raised by area
67
```

run_tests.job_ubuntu
failed yesterday in 2s

Q Search logs



run tests

```
74 AssertionError: ValueError not raised by perimeter
75
76 =====
77 FAIL: testInvalidArgument (testTriangle.TriangleTestCaseArea)
78 -----
79 Traceback (most recent call last):
80   File "/home/runner/work/geometric_lib/geometric_lib/tests/testTriangle.py", line 9, in testInvalidArgument
81     self.assertRaises(ValueError, triangle.area, -1, -1)
82 AssertionError: ValueError not raised by area
83
84 =====
85 FAIL: testInvalidArgument (testTriangle.TriangleTestCasePerimeter)
86 -----
87 Traceback (most recent call last):
88   File "/home/runner/work/geometric_lib/geometric_lib/tests/testTriangle.py", line 29, in testInvalidArgument
89     self.assertRaises(ValueError, triangle.perimeter, -1, -1, -1)
90 AssertionError: ValueError not raised by perimeter
91
92 =====
93 FAIL: testNotExistTriangle (testTriangle.TriangleTestCasePerimeter)
94 -----
95 Traceback (most recent call last):
96   File "/home/runner/work/geometric_lib/geometric_lib/tests/testTriangle.py", line 26, in testNotExistTriangle
97     self.assertRaises(ValueError, triangle.perimeter, 1, 2, 3)
98 AssertionError: ValueError not raised by perimeter
99
100 -----
101 Ran 36 tests in 0.002s
102
103 FAILED (failures=11)
104 Error: Process completed with exit code 1.
```

- Post Run actions/setup-python@v4
- > Post Checkout code
- > Complete job