

Федеральное государственное автономное
образовательное учреждение высшего
образования
«Национальный исследовательский университет
ИТМО»

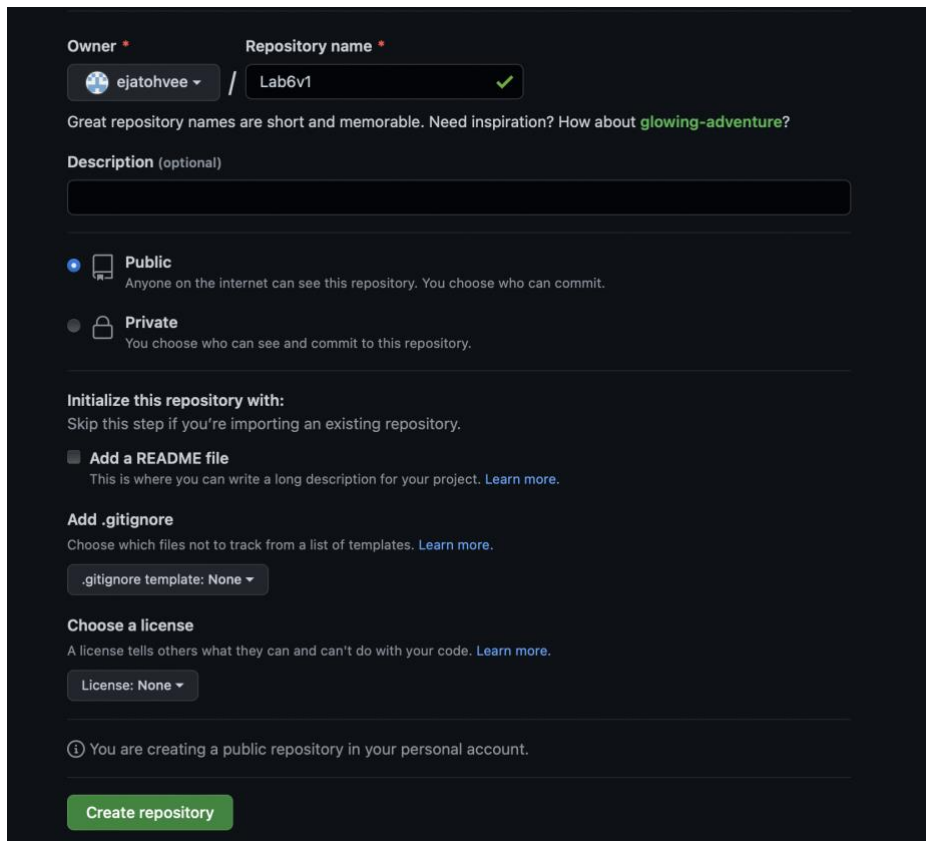
Факультет Информационных технологий и программирования

Работа: Игнатов М. В., М3112, Инструментальные средства
разработки ПО, работа №6

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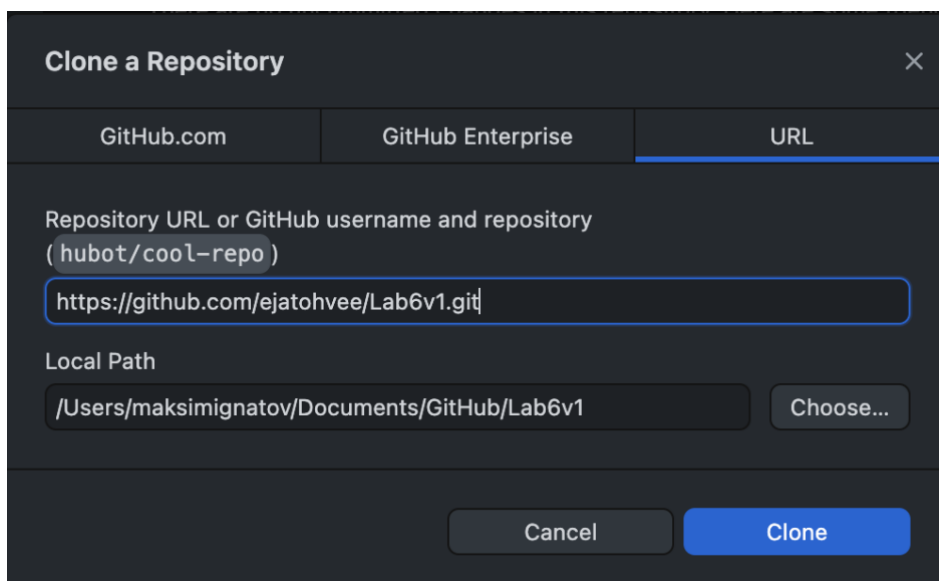
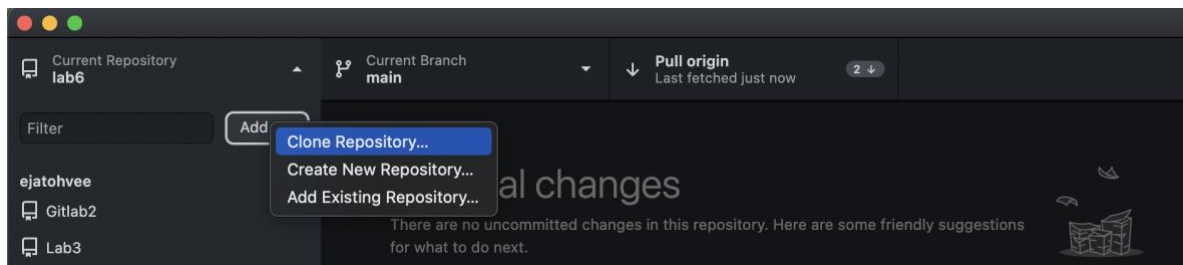
Санкт-Петербург
2022 г.

1. Создаем новый репозиторий на GitHub



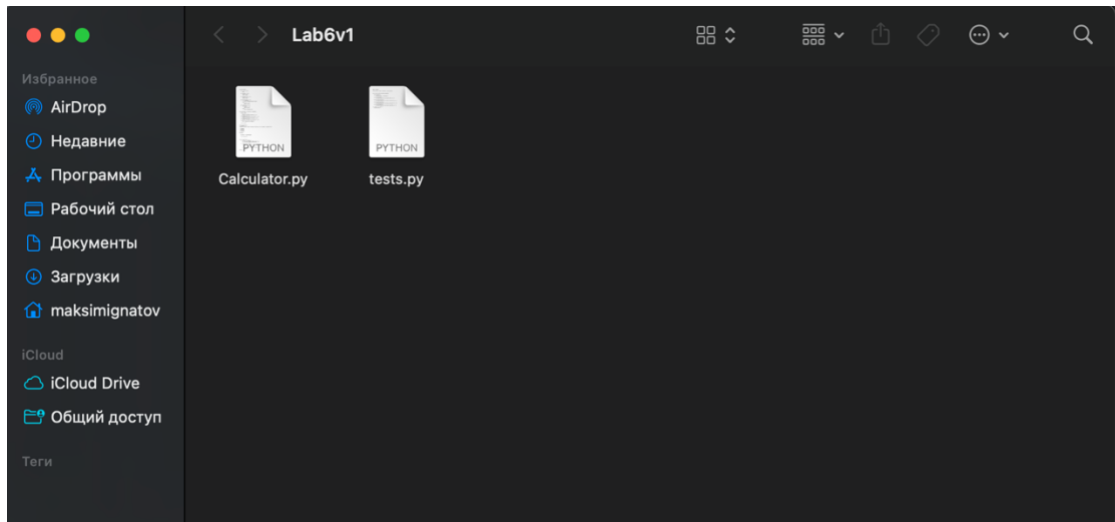
The screenshot shows the GitHub 'Create new repository' page. At the top, the 'Owner' is 'ejatohvee' and the 'Repository name' is 'Lab6v1', which has a green checkmark. Below this, a message says: 'Great repository names are short and memorable. Need inspiration? How about glowing-adventure?'. There is a text input field for the 'Description (optional)'. Under the 'Visibility' section, 'Public' is selected with a radio button, and 'Private' is unselected. Below this, the 'Initialize this repository with:' section has a checkbox for 'Add a README file' which is checked. The 'Add .gitignore' section has a dropdown menu set to '.gitignore template: None'. The 'Choose a license' section has a dropdown menu set to 'License: None'. At the bottom, there is a green button labeled 'Create repository'.

2. С помощью GitHub Desktop клонируем репозиторий на компьютер

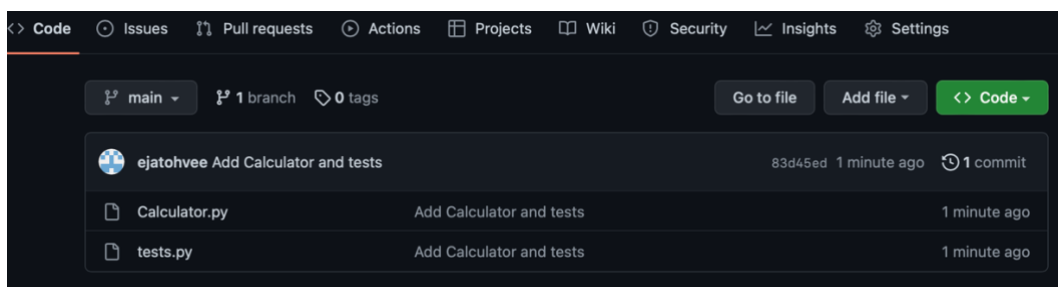
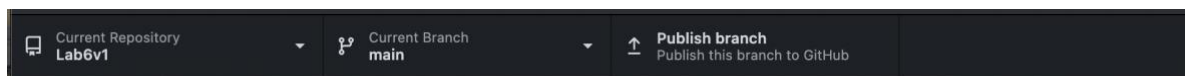
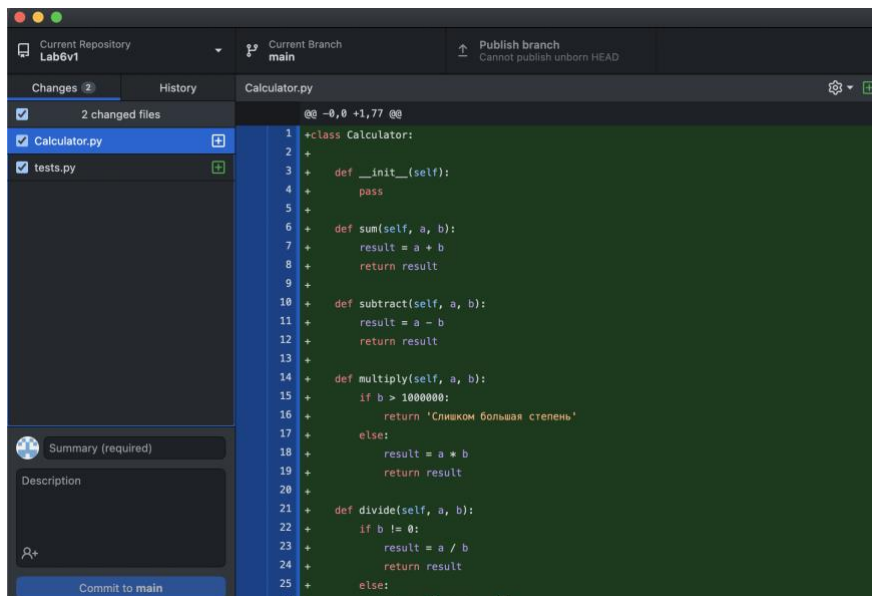


The screenshot shows the 'Clone a Repository' dialog box in GitHub Desktop. The dialog has three tabs: 'GitHub.com', 'GitHub Enterprise', and 'URL'. The 'URL' tab is selected. The 'Repository URL or GitHub username and repository (hubot/cool-repo)' field contains the text 'https://github.com/ejatohvee/Lab6v1.git'. The 'Local Path' field contains the text '/Users/maksimignatov/Documents/GitHub/Lab6v1'. There is a 'Choose...' button next to the 'Local Path' field. At the bottom, there are two buttons: 'Cancel' and 'Clone'.

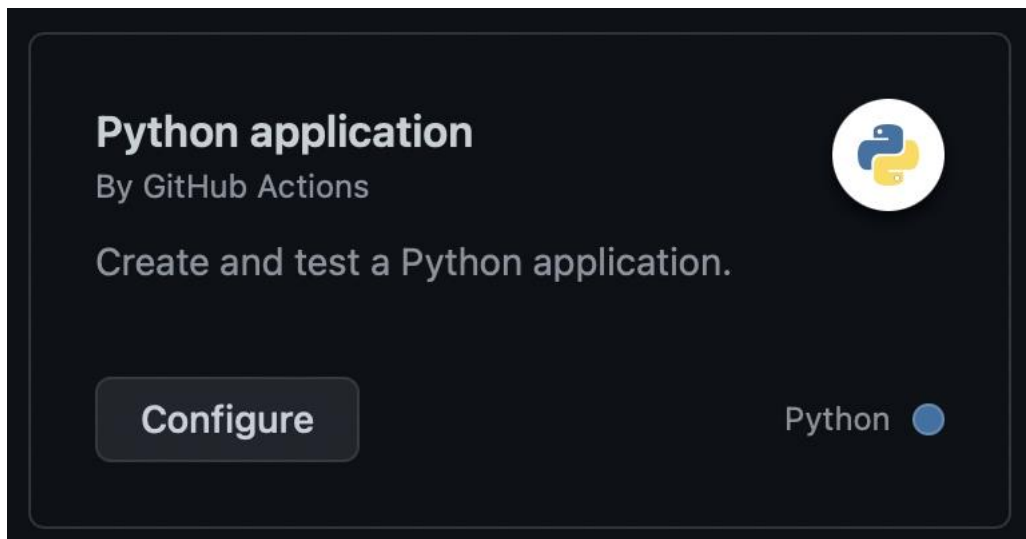
3. Добавляем в репозиторий файлы Calculator.py и tests.py



4. Переносим изменения с компьютера на GitHub (Publish branch)



5. В GitHub переходим во вкладку GitHub Actions, выбираем Python application



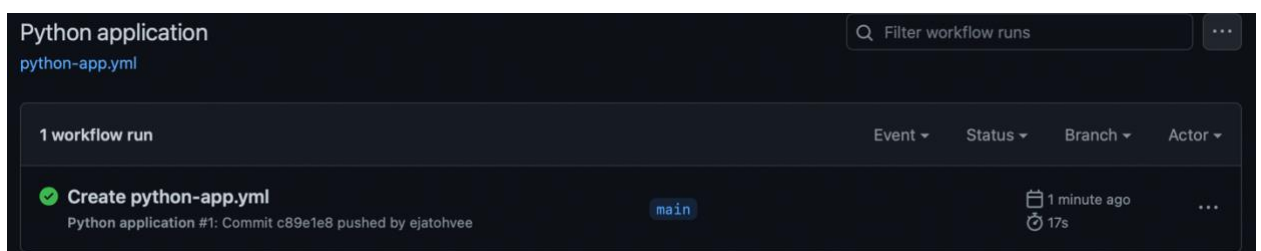
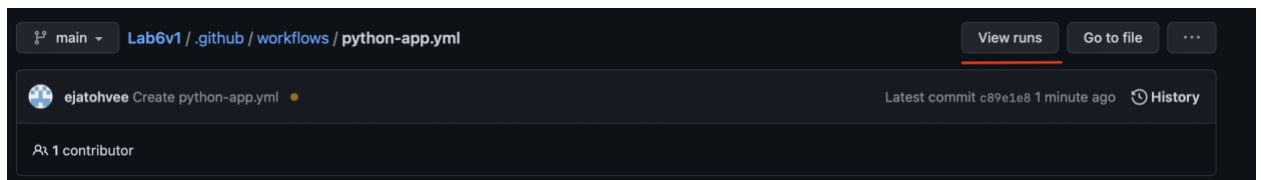
6. Создаем .yaml файл в котором собираем нашу программу, прогоняем в ней тесты из файла tests.py и упаковываем ее в .exe

```
Lab6v1 / .github / workflows / python-app.yml in main [Cancel changes] [Start commit]

<> Edit new file Preview Spaces 2 No wrap

18 - uses: actions/checkout@v3
19 - name: Set up Python 3.10
20   uses: actions/setup-python@v3
21   with:
22     python-version: "3.10"
23 - name: Install dependencies
24   run: |
25     python -m pip install --upgrade pip
26     pip install flake8 pytest
27     if [ -f requirements.txt ]; then pip install -r requirements.txt; fi
28 - name: Lint with flake8
29   run: |
30     # stop the build if there are Python syntax errors or undefined names
31     flake8 . --count --select=E9,F63,F7,F82 --show-source --statistics
32     # exit-zero treats all errors as warnings. The GitHub editor is 127 chars wide
33     flake8 . --count --exit-zero --max-complexity=10 --max-line-length=127 --statistics
34 - name: Test with pytest
35   run: |
36     python tests.py
37
38 # Uploads artifact
39 - name: Upload Artifact
40   uses: actions/upload-artifact@v3
41   with:
42     name: exe
43     path: build/Calculator.exe
```

7. Заходим в результаты и видим, что build был выполнен корректно, тесты были проведены и корректно завершены



← Python application

✔ Create python-app.yml #1

Re-run all jobs

...

Summary

Jobs

build

Run details

Usage

Workflow file

Triggered via push 2 minutes ago

Status

Total duration

Artifacts

ejatohvee pushed → c89e1e8 main

Success

17s

-

python-app.yml

on: push

build

6s

Test with pytest

0s

1 ▶ Run python tests.py

7

8 -----

9 Ran 4 tests in 0.000s

10

11 OK

Upload Artifact

0s

1 ▼ Run actions/upload-artifact@v3

2 with:

3 name: exe

4 path: build/Calculator.exe

5 if-no-files-found: warn

6 env:

7 pythonLocation: /opt/hostedtoolcache/Python/3.10.8/x64

8 LD_LIBRARY_PATH: /opt/hostedtoolcache/Python/3.10.8/x64/lib

9 **Warning:** No files were found with the provided path: build/Calculator.exe. No artifacts will be uploaded.