

LECTURE 4 report.

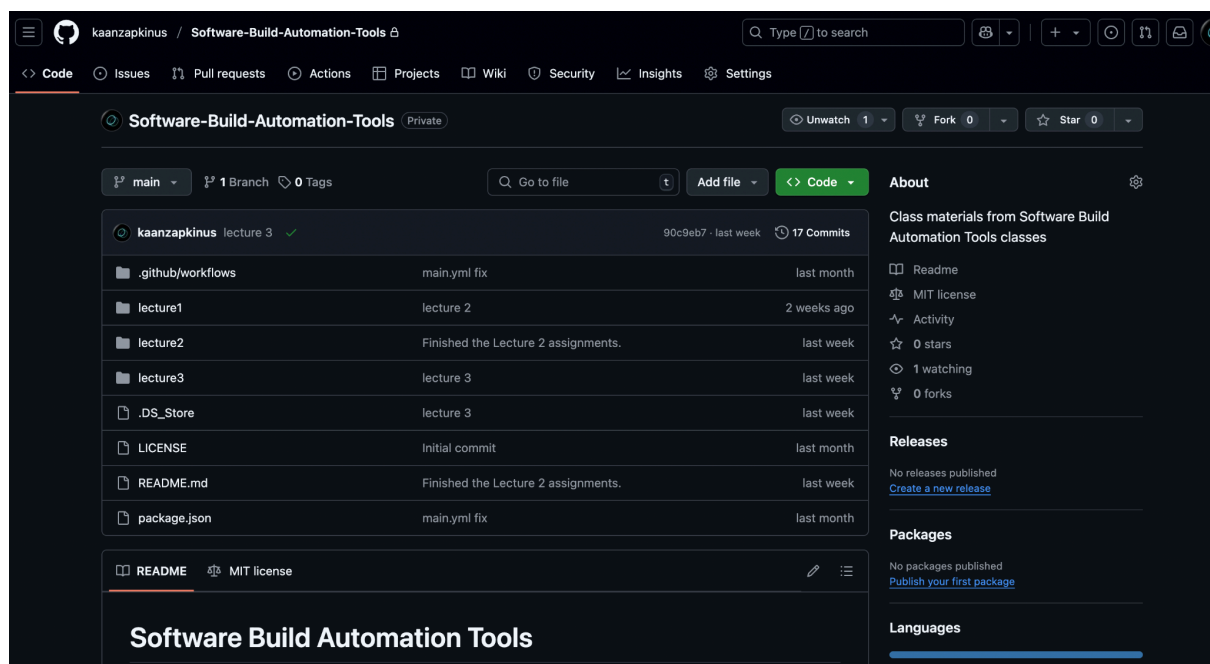
github repo: <https://github.com/kaanzapkinus/Software-Build-Automation-Tools>

KAAN YAZICIOĞLU SD4

TASK 1-2-3-4

I already have done this tasks on the previous weeks so i skip them:

2. Create a new Python project in PyCharm.
3. Set up a Git repository and connect it to GitHub.
4. Make changes to the project (e.g., create a main.py file). Than Commit and Push Changes.



TASK 5

Implement Git Workflows

- Create a new branch and make changes (e.g., add a new Python file).
- Switch branches.
- Commit the changes and merge them into the main branch.
- Push a branch to GitHub. Creating a Pull Request

added new python files to lecture4 folder

```
• kaan@Kaan-MacBook-Air Software-Build-Automation-Tools % git checkout -b lecture4
Yeni 'lecture4' dalına geçildi.
• kaan@Kaan-MacBook-Air Software-Build-Automation-Tools % git add .
• kaan@Kaan-MacBook-Air Software-Build-Automation-Tools % git commit -m "new branch push"
[lecture4 5ad2321] new branch push
4 files changed, 14 insertions(+)
create mode 100644 lecture4/1.pdf
create mode 100644 lecture4/calculator.py
create mode 100644 lecture4/test_calculator.py
• kaan@Kaan-MacBook-Air Software-Build-Automation-Tools % git push -m origin lecture4
fatal: bilinmeyen anahtar 'm'
```

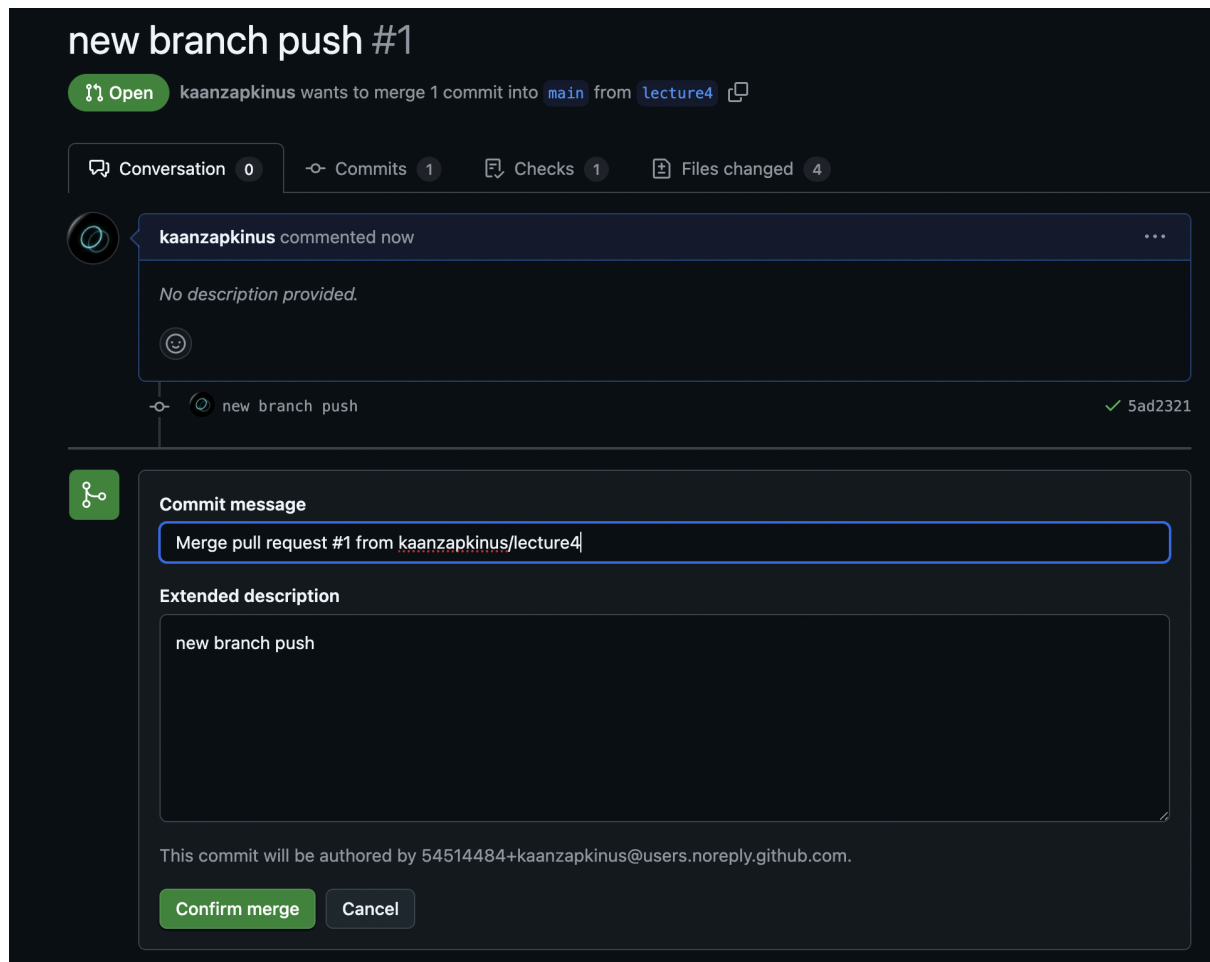
then pushed changes to the lecture4 branches

```
• kaan@Kaan-MacBook-Air Software-Build-Automation-Tools % git push -u origin lecture4
Nesneler ortaya dökülüyor: 9, bitti.
Nesneler sayılıyor: 100% (9/9), bitti.
Delta sıkıştırması 8 iş parçasığı kullanıyor
Nesneler sıkıştırılıyor: 100% (7/7), bitti.
Nesneler yazılıyor: 100% (7/7), 154.96 KiB | 30.99 MiB/sn, bitti.
Toplam 7 (delta 2), yeniden kullanılan 0 (delta 0), yeniden kullanılan paket 0 (0 konumundan)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'lecture4' on GitHub by visiting:
remote:   https://github.com/kaanzapkinus/Software-Build-Automation-Tools/pull/new/lecture4
remote:
To https://github.com/kaanzapkinus/Software-Build-Automation-Tools.git
 * [new branch]      lecture4 -> lecture4
'lecture4' dalı 'origin/lecture4' ögesini izlemek üzere ayarlandı.
• kaan@Kaan-MacBook-Air Software-Build-Automation-Tools %
```

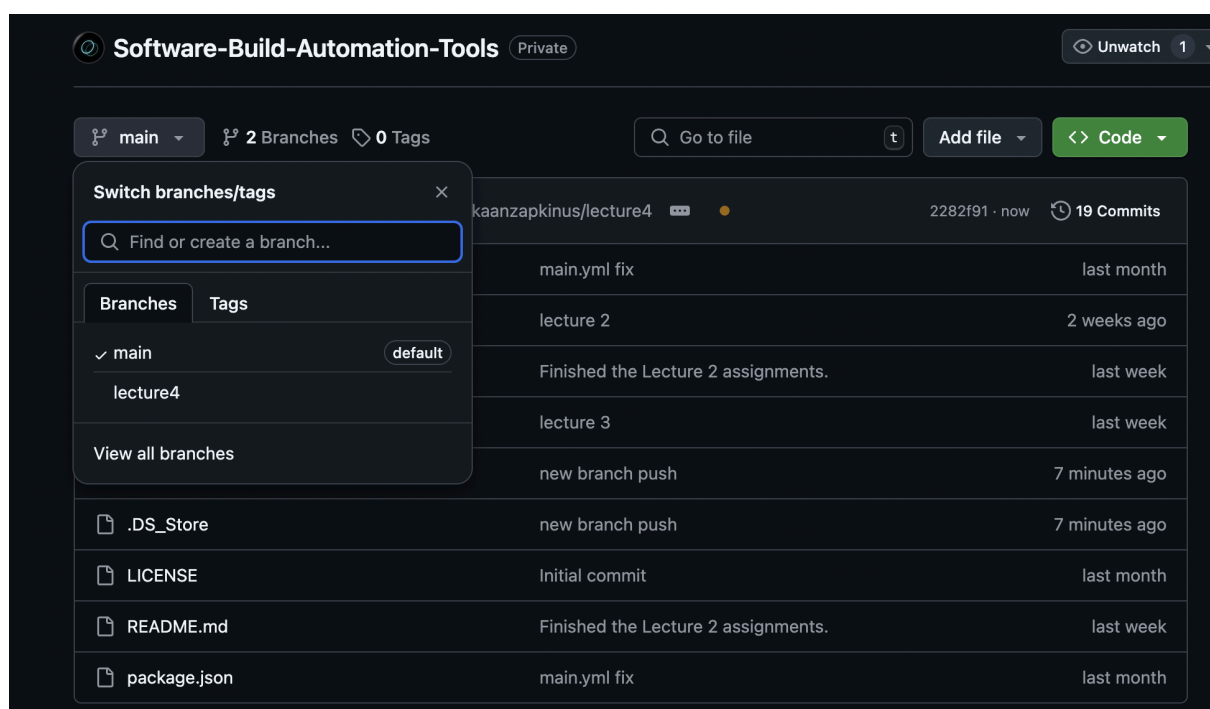
then i merged lecture4 branch with main

```
• kaan@Kaan-MacBook-Air Software-Build-Automation-Tools % git checkout main
M      lecture1/clone
'main' dalına geçildi.
Dalinız 'origin/main' ile güncel.
• kaan@Kaan-MacBook-Air Software-Build-Automation-Tools % git merge lecture4
Güncelleniyor: 90c9eb7..5ad2321
Fast-forward
 .DS_Store                | Bin 8196 -> 8196 bytes
 lecture4/1.pdf           | Bin 0 -> 164111 bytes
 lecture4/calculator.py   | 5 +++++
 lecture4/test_calculator.py | 9 ++++++++
4 files changed, 14 insertions(+)
create mode 100644 lecture4/1.pdf
create mode 100644 lecture4/calculator.py
create mode 100644 lecture4/test_calculator.py
```

i see the pull request on github



now i have 2 branches available



TASK 6

Configure CI/CD

- Create a `.github/workflows/main.yml` file for GitHub Actions.
- Implement a CI pipeline that installs dependencies and runs tests.

The screenshot shows the GitHub Actions workflow editor for a file named `lecture4.yml` in the `main` branch. The workflow is configured with the following steps:

```
1 name: Python CI
2 on:
3   push:
4     branches:
5       - main
6   pull_request:
7     branches:
8       - main
9
10 jobs:
11   build:
12     runs-on: ubuntu-latest
13     steps:
14       - uses: actions/checkout@v2
15       - name: Set up Python
16         uses: actions/setup-python@v2
17         with:
18           python-version: '3.9'
19       - name: Install dependencies
20         run: |
21           pip install -r requirements.txt
22       - name: Run tests
23         run: |
24           pytest
```

A "Commit changes" dialog is open, showing the commit message "Create lecture4.yml" and the extended description "lecture4.yml". The dialog offers two options: "Commit directly to the main branch" (selected) and "Create a new branch for this commit and start a pull request". The "Commit changes" button is highlighted in green.

The screenshot shows the GitHub repository file browser for the `kaanzapkinus / Software-Build-Automation-Tools` repository. The `.github/workflows` directory is selected, and the commit history is displayed. The table shows the following commits:

Name	Last commit message	Last commit date
..		
lecture4.yml	Create lecture4.yml	now
main.yml	main.yml fix	last month

The CI/CD fails because i do not have a requirements.txt

But it works.

Annotations

1 error and 1 warning

build

failed 2 minutes ago in 4s

Search logs

Explain error

> Set up job

1s

> Run actions/checkout@v2

1s

> Set up Python

0s

Install dependencies

1s

1

Run pip install -r requirements.txt

2

pip install -r requirements.txt

3

shell: /usr/bin/bash -e {0}

4

env:

5

pythonLocation: /opt/hostedtoolcache/Python/3.9.21/x64

6

LD_LIBRARY_PATH: /opt/hostedtoolcache/Python/3.9.21/x64/lib

7

ERROR: Could not open requirements file: [Errno 2] No such file or directory: 'requirements.txt'

8

Error: Process completed with exit code 1.

Run tests

0s

Post Set up Python

0s

> Post Run actions/checkout@v2

0s

> Complete job

0s