1인1프로그래밍언어 마스터제

ZZEZEO(TSEZL) ZE

전남대학교 SW중심대학사업단

1인1프로그래밍언어 마스터제 소개

• 목적

✓실전적 SW개발역량 강화를 위하여 SW전공(소프트웨어공학과, 컴퓨터 정보통신공학과, AI융합학부)대상으로 코딩클리닉 교육

• 운영

✓학기중 프로그래밍언어(C/C++, JAVA, Python) 교과목 운영

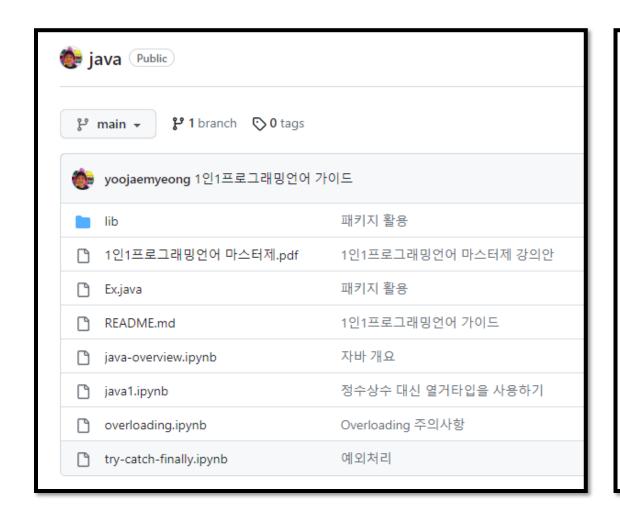
• 교육일정

- 일시: 2023. 11. 10(금) 14:00 ~ 16:00
- 장소: AI융합대학 210호실

• 교육자료

URL: https://github.com/yoojaemyeong/java

깃허브 자료실 (https://github.com/yoojaemyeong/java)



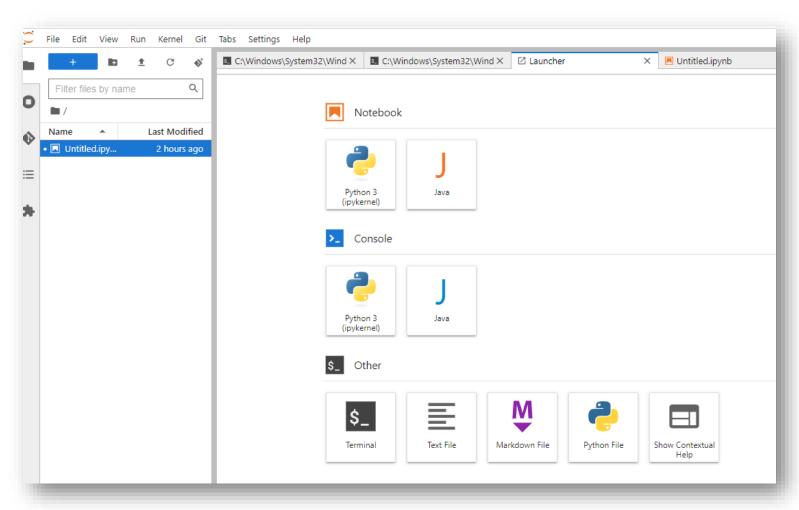


[자바 활용(1)] 자바 환경 만들기

- 1. 파이썬 설치(버전 3.11.x) [옵션체크] Add Python 3.11.x to PATH
 - https://www.python.org/downloads
- 2. 자바 설치(최신버전)
 - https://www.oracle.com/java/technologies/downloads
- 3. Jupyterlab 설치 및 환경구성 <mark>파워쉘 프롬프트 실행하여 작업</mark>
 - 실습할 폴더 생성 및 이동: mkdir d:₩java; cd d:₩java
 - Jupyterlab 설치: pip install jupyterlab
 - 자바커널 다운로드 및 압출해제: https://github.com/SpencerPa가/IJava/releases/ijava-1.3.0.zip
 - 작업위치: cd d:₩java₩ijava-1.3.0
 - 환경구성 및 자바커널 추가
 - \$Env.Path += ';C:\Program Files\Java\jdk-21\bin' ; cat Env:Path
 - \$Env.JAVA_HOME='C:\\Program Files\Java\Java\Jdk-21' ; cat Env:JAVA_HOME
 - python install.py <= 자바커널 추가
 - ijsinstall <= 자바커널 추가
 - pip install –upgrade "jupyterlab<4" jupyterlab-git <= jupyterlab git extension 설치
- 4. 주피터랩 실행: <mark>jupyter lab</mark>

```
C:\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Us
```

실행화면



[자바활용(3)] 로컬컴퓨터 :: ssh 환경구성

github ssh key pair 방식 이용하기

- 1. SSH 환경구성: cd~; mkdir.ssh;
- 2. 명령프롬프트에서 ssh key pair 생성

ssh-keygen.exe

id_rsa : 개인키 id_rsa.pub : 공개키

- 3. 메모장에서 ~/.ssh/config 편집
- 4. Github에서 java 저장소 만들기
- 5. Github에서 공개키 등 등록
- 6. Jupyter lab에서 git 사용하기

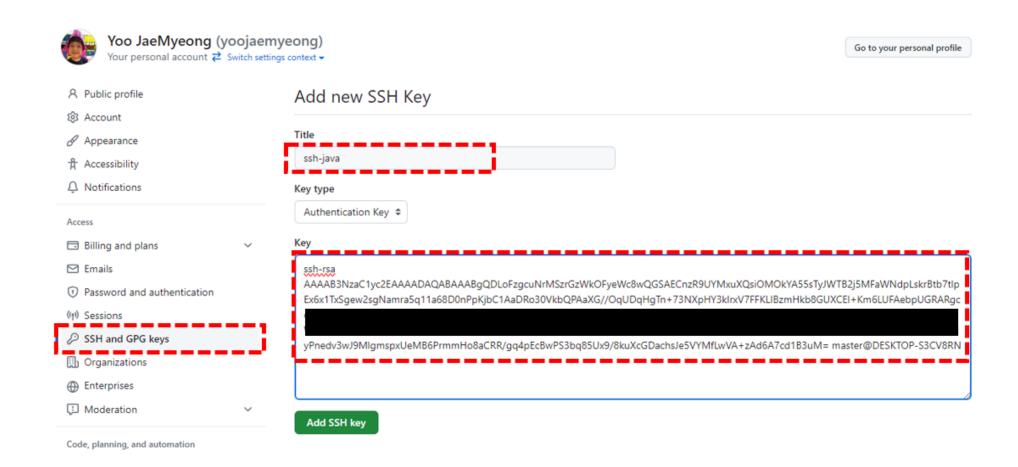
```
git remote add ssh-origin git@github.com:[my-id]/java.git
git branch -M main
git add [new file]
git commit -m "자료 추가"
git push -u ssh-origin main
```

```
PS C:\Users\master\.ssh> ssh-keygen.exe
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\master/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\master/.ssh/id_rsa
Your public key has been saved in C:\Users\master/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:NAa9UlOcYS9IoCcmXu3BrLgNHcOkmbraL9XyO3nKPow master@DESKTOP-S3CV8RN
The key's randomart image is:
+---[RSA 3072]---+
     . 00.0+0
    * = 0+00.
   = 0 *.=0. .
  o * B.+.. .
   .0..=*
    --[SHA256]----+
```

~/.ssh/config

Host github.com
Hostname github.com
IdentityFile ~/.ssh/id_rsa

[자바활용(2)] github :: ssh 공개키 등록



로컬저장소, 원격저장소 보기

