

오픈 SW 실습 과제 1차

201912074

컴퓨터공학부

박종현

1.

```
C: > Users > Flcoa > Desktop > lec > Home > rng.py
1  num1 = int(input("첫번째 숫자 : "))
2  num2 = int(input("두번째 숫자 : "))
3
4  print(num1 + num2)
5  print(num1 - num2)
```

우선 초기 Python으로 덧셈/뺄셈 출력 프로그램을 작성하였다.

```
C:\Users\Flcoa\Desktop\lec\Home> git init
Initialized empty Git repository in C:/Users/Flcoa/Desktop/lec/Home/.git/
C:\Users\Flcoa\Desktop\lec\Home> git config --global core.autocrlf true
C:\Users\Flcoa\Desktop\lec\Home> git add
```

```
101. pathspec 'master' did not match any file(s) known to g
C:\Users\Flcoa\Desktop\lec\Home> git commit -m "First"
[master (root-commit) c8c2035] First
1 file changed, 5 insertions(+)
create mode 100644 rng.py
C:\Users\Flcoa\Desktop\lec\Home> git remote add origin https://github.com/Kokoaca/Home.git
C:\Users\Flcoa\Desktop\lec\Home> git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 280 bytes | 280.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
https://github.com/Kokoaca/Home.git
[new branch]      master -> master
C:\Users\Flcoa\Desktop\lec\Home> |
```

commit 및 원격 저장소 연결

2.

```
PS C:\Users\Flcoa\Desktop\lec\Home> git branch feature-addition
PS C:\Users\Flcoa\Desktop\lec\Home> git branch -v
feature-addition c8c2035 First
* master c8c2035 First
```

새 브랜치 생성

```
C: > Users > Flcoa > Desktop > lec > Home > rng.py > ...
1  num1 = int(input("첫번째 숫자 : "))
2  num2 = int(input("두번째 숫자 : "))
3
4  print(num1 + num2)
5  print(num1 - num2)
6  print(num1 * num2)
7  print(format(num1 / num2, ".2f"))
```

기능 추가

```
PS C:\Users\Flcoa\Desktop\lec\Home> git add .
PS C:\Users\Flcoa\Desktop\lec\Home> git commit -m "Second"
[master eb1a8fd] Second
1 file changed, 3 insertions(+), 1 deletion(-)
PS C:\Users\Flcoa\Desktop\lec\Home> git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 301 bytes | 301.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Kokoaca/Home.git
c8c2035..eb1a8fd master -> master
PS C:\Users\Flcoa\Desktop\lec\Home> |
```

추가된 기능을 커밋

```
PS C:\Users\Flcoa\Desktop\lec\Home> git switch feature-addition
Switched to branch 'feature-addition'
PS C:\Users\Flcoa\Desktop\lec\Home> git merge plan2
merge: plan2 - not something we can merge
PS C:\Users\Flcoa\Desktop\lec\Home> git merge master
Updating c8c2035..eb1a8fd
Fast-forward
 rng.py | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)
PS C:\Users\Flcoa\Desktop\lec\Home> |
```

브랜치 병합

3.

```
PS C:\Users\Flcoa\Desktop\lec\Home> git branch feature-branch1
PS C:\Users\Flcoa\Desktop\lec\Home> git checkout feature-branch1
Switched to branch 'feature-branch1'
```

브랜치 생성 및 이동

```
C: > Users > Flcoa > Desktop > lec > Home > rng.py > ...
1  num1 = int(input("첫번째 숫자 : "))
2  num2 = int(input("두번째 숫자 : "))
3  num3 = int(input("세번째 숫자 : "))
4
5  print(num1 + num2 + num3)
6  print(num1 - num2 - num3)
7  print(num1 * num2 * num3)
8  print(format(num1 / num2 / num3, ".4f"))
```

기능 수정

```
PS C:\Users\Flcoa\Desktop\lec\Home> git add .
PS C:\Users\Flcoa\Desktop\lec\Home> git commit -m "branch1 commit"
[feature-branch1 fbcc555] branch1 commit
1 file changed, 5 insertions(+), 4 deletions(-)
```

변경사항 스테이징 및 커밋

```
PS C:\Users\Flcoa\Desktop\lec\Home> git switch master
Switched to branch 'master'
PS C:\Users\Flcoa\Desktop\lec\Home> git switch -c feature-branch2
Switched to a new branch 'feature-branch2'
```

두 번째 브랜치 생성 및 이동

```
C: > Users > Flcoa > Desktop > lec > Home > rng.py > ...
1  num1 = int(input("첫번째 숫자 : "))
2  num2 = int(input("두번째 숫자 : "))
3
4  print(num1 + num2)
5  print(num1 - num2)
```

기능 수정(2)


```
PS C:\Users\Flcoa\Desktop\lec\Home> git add .
PS C:\Users\Flcoa\Desktop\lec\Home> git commit -m "branch2 commit"
[feature-branch2 11f64c5] branch2 commit
1 file changed, 1 insertion(+), 3 deletions(-)
```

변경사항 스테이징 및 커밋

```
PS C:\Users\Flcoa\Desktop\lec\Home> git switch master
Switched to branch 'master'
PS C:\Users\Flcoa\Desktop\lec\Home> git merge feature-branch1
Updating eb1a8fd..fbcc555
Fast-forward
 rng.py | 9 +++++-----
1 file changed, 5 insertions(+), 4 deletions(-)
PS C:\Users\Flcoa\Desktop\lec\Home> |
```

feature-branch1, master 병합

```
PS C:\Users\Flcoa\Desktop\lec\Home> git merge feature-branch2
Auto-merging rng.py
CONFLICT (content): Merge conflict in rng.py
Automatic merge failed; fix conflicts and then commit the result.
feature-branch2과 병합을 시도하였지만 충돌 발생
```

```
C: > Users > Flcoa > Desktop > lec > Home > rng.py

1  hum1 = int(input("첫번째 숫자 : "))
2  num2 = int(input("두번째 숫자 : "))
3  num3 = int(input("세번째 숫자 : "))
4
5  <<<<<<< HEAD (현재 변경 사항)
6  print(num1 +num2 +num3)
7  print(num1 -num2 -num3)
8  print(num1*num2*num3)
9  print(format(num1/num2/num3, ".4f"))
10 =====
11 print(num1 +num2)
12 print(num1 -num2)
13 >>>>>>> feature-branch2 (수신 변경 사항)
14
```

Visual Studio Code로 충돌 파일 확인

```
C: > Users > Flcoa > Desktop > lec > Home > 🐍 rng.py > ...
```

```
1  num1 = int(input("첫번째 숫자 : "))
2  num2 = int(input("두번째 숫자 : "))
3  num3 = int(input("세번째 숫자 : "))
4
5  print(num1 +num2 +num3)
6  print(num1 -num2 -num3)
7  print(num1*num2*num3)
8  print(format(num1/num2/num3, ".4f"))
9
```

코드 수정 및 충돌 해결

```
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\Flcoa\Desktop\lec\Home> git add .
PS C:\Users\Flcoa\Desktop\lec\Home> git commit -m "Final"
fatal: cannot do a partial commit during a merge.
PS C:\Users\Flcoa\Desktop\lec\Home> git commit -m "final"
[master 817de6e] final
PS C:\Users\Flcoa\Desktop\lec\Home> |
```

commit&push 완료