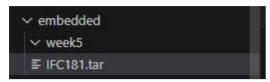
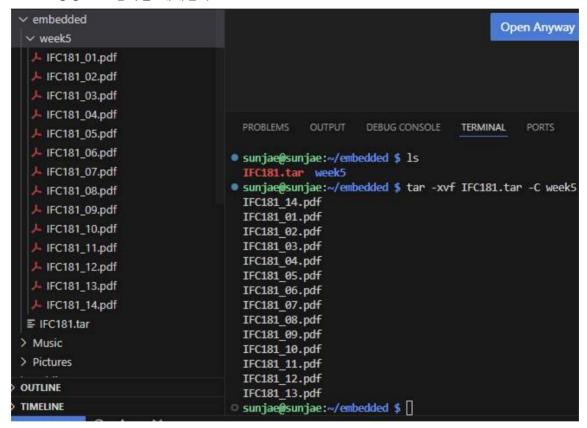
임베디드 5주차 과제 2020161123 최선재

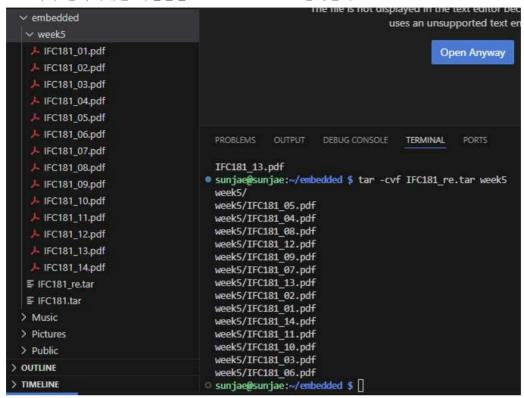
1. IFC181.tar 파일을 받아 ~/embedded/week5 로 옮긴다.



2. tar 명령으로 압축을 해제한다.

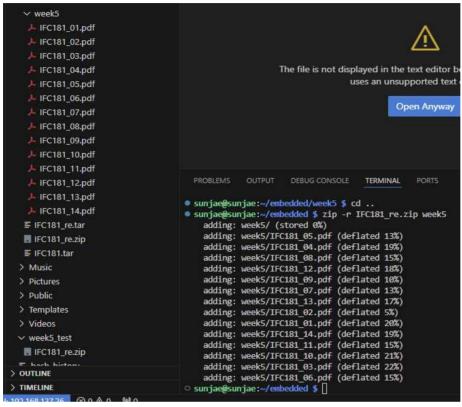


3. 2에서 압축해제된 파일들을 IFC181_re.tar로 압축한다.

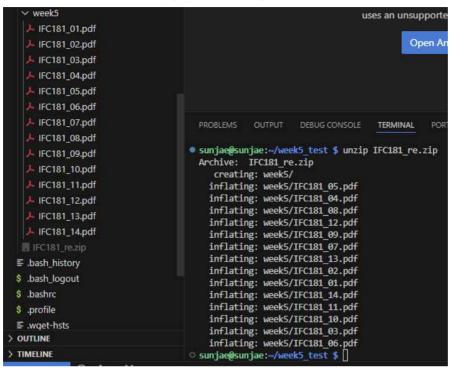


- 4. 2에서 압축해제된 파일들을 zip명령으로 IFC181_re.zip으로 압축한다.
- 이때 zip 명령을 수행할 수 있도록 zip을 설치한다.

: sudo apt-get install zip

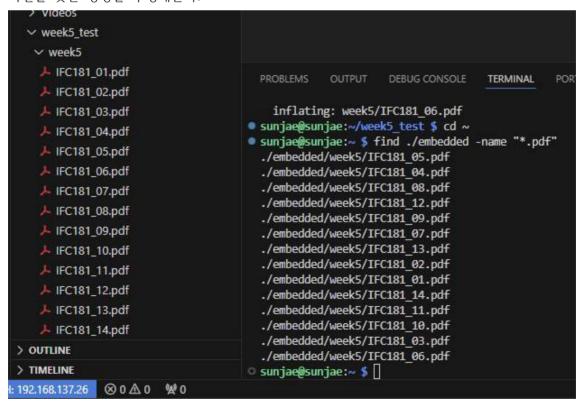


5. 4에서 나온 IFC181_re.zip 파일을 unzip 명령을 통해 압축해제 한다.



<find 명령어 연습>

6. ~ (home) 디렉토리로 이동하고 find 명령을 통해 embedded폴더에서(하위폴더 포함) .pdf 파일을 찾는 명령을 수행해본다.



7. 아래의 명령 결과가 동일한지 아닌지 결과를 보이고 동작 결과를 설명하시오 innosm@innosm:~ \$find . -name *.pdf

```
▶ sunjae@sunjae:~ 5 find . -name *.pdf
 ./week5 test/week5/IFC181 05.pdf
 ./week5 test/week5/IFC181 04.pdf
 ./week5 test/week5/IFC181 08.pdf
 ./week5 test/week5/IFC181 12.pdf
 ./week5 test/week5/IFC181 09.pdf
 ./week5 test/week5/IFC181 07.pdf
 ./week5 test/week5/IFC181 13.pdf
 ./week5 test/week5/IFC181 02.pdf
 ./week5 test/week5/IFC181 01.pdf
 ./week5 test/week5/IFC181 14.pdf
 ./week5 test/week5/IFC181 11.pdf
 ./week5 test/week5/IFC181 10.pdf
 ./week5 test/week5/IFC181 03.pdf
 ./week5 test/week5/IFC181 06.pdf
 ./Bookshelf/BeginnersGuide-4thEd-Eng v2.pdf
 ./embedded/week5/IFC181 05.pdf
 ./embedded/week5/IFC181 04.pdf
 ./embedded/week5/IFC181 08.pdf
 ./embedded/week5/IFC181 12.pdf
 ./embedded/week5/IFC181 09.pdf
 ./embedded/week5/IFC181 07.pdf
 ./embedded/week5/IFC181 13.pdf
 ./embedded/week5/IFC181 02.pdf
 ./embedded/week5/IFC181_01.pdf
 ./embedded/week5/IFC181 14.pdf
 ./embedded/week5/IFC181 11.pdf
 ./embedded/week5/IFC181 10.pdf
 ./embedded/week5/IFC181 03.pdf
 ./embedded/week5/IFC181 06.pdf
🗅 sunjae@sunjae:~ 💲 🗌
```

pdf로 끝나는 파일을 찾아서 보여주었다

innosm@innosm:~ \$find ./ -name *.pdf

```
sunjae@sunjae:~ $ find ./ -name *.pdf
  ./week5_test/week5/IFC181_05.pdf
  ./week5 test/week5/IFC181 04.pdf
  ./week5 test/week5/IFC181 08.pdf
 ./week5 test/week5/IFC181 12.pdf
  ./week5 test/week5/IFC181 09.pdf
  ./week5_test/week5/IFC181_07.pdf
 ./week5 test/week5/IFC181 13.pdf
  ./week5 test/week5/IFC181 02.pdf
  ./week5 test/week5/IFC181 01.pdf
  ./week5_test/week5/IFC181_14.pdf
 ./week5 test/week5/IFC181 11.pdf
  ./week5 test/week5/IFC181 10.pdf
  ./week5 test/week5/IFC181 03.pdf
  ./week5 test/week5/IFC181 06.pdf
 ./Bookshelf/BeginnersGuide-4thEd-Eng v2.pdf
  ./embedded/week5/IFC181 05.pdf
  ./embedded/week5/IFC181_04.pdf
 ./embedded/week5/IFC181 08.pdf
 ./embedded/week5/IFC181 12.pdf
  ./embedded/week5/IFC181 09.pdf
  ./embedded/week5/IFC181_07.pdf
 ./embedded/week5/IFC181 13.pdf
  ./embedded/week5/IFC181 02.pdf
  ./embedded/week5/IFC181 01.pdf
  ./embedded/week5/IFC181 14.pdf
 ./embedded/week5/IFC181_11.pdf
  ./embedded/week5/IFC181 10.pdf
  ./embedded/week5/IFC181 03.pdf
  ./embedded/week5/IFC181 06.pdf
```

pdf로 끝나는 파일을 찾아서 보여주었다

```
innosm@innosm:~ $find -name *.pdf
```

```
🛮 sunjae@sunjae:~ 🖇 find -name *.pdf
 find: '-name': 그런 파일이나 디렉터리가 없습니다
find: '*.pdf': 그런 파일이나 디렉터리가 없습니다
```

홈디렉토리에서 pdf파일을 찾는다

innosm@innosm:~ \$find ~ -name *.pdf

```
sunjae@sunjae:~ $ find ~ -name *.pdf
/home/sunjae/week5 test/week5/IFC181 05.pdf
/home/sunjae/week5 test/week5/IFC181 04.pdf
/home/sunjae/week5 test/week5/IFC181 08.pdf
/home/sunjae/week5 test/week5/IFC181 12.pdf
/home/sunjae/week5 test/week5/IFC181 09.pdf
/home/sunjae/week5 test/week5/IFC181 07.pdf
/home/sunjae/week5 test/week5/IFC181 13.pdf
/home/sunjae/week5 test/week5/IFC181 02.pdf
/home/sunjae/week5 test/week5/IFC181 01.pdf
/home/sunjae/week5_test/week5/IFC181_14.pdf
/home/sunjae/week5 test/week5/IFC181 11.pdf
/home/sunjae/week5 test/week5/IFC181 10.pdf
/home/sunjae/week5 test/week5/IFC181 03.pdf
/home/sunjae/week5 test/week5/IFC181 06.pdf
/home/sunjae/Bookshelf/BeginnersGuide-4thEd-Eng v2.pdf
/home/sunjae/embedded/week5/IFC181 05.pdf
/home/sunjae/embedded/week5/IFC181 04.pdf
/home/sunjae/embedded/week5/IFC181 08.pdf
/home/sunjae/embedded/week5/IFC181 12.pdf
/home/sunjae/embedded/week5/IFC181 09.pdf
/home/sunjae/embedded/week5/IFC181 07.pdf
/home/sunjae/embedded/week5/IFC181 13.pdf
/home/sunjae/embedded/week5/IFC181 02.pdf
/home/sunjae/embedded/week5/IFC181 01.pdf
/home/sunjae/embedded/week5/IFC181 14.pdf
/home/sunjae/embedded/week5/IFC181 11.pdf
/home/sunjae/embedded/week5/IFC181 10.pdf
/home/sunjae/embedded/week5/IFC181 03.pdf
/home/sunjae/embedded/week5/IFC181 06.pdf
```

pdf파일을 찾는다

innosm@innosm:~ \$find /home/innosm -name *.pdf

```
sunjae@sunjae:~ $ find /home/innosm -name *.pdf
find: '/home/innosm': 그런 파일이나 디렉터리가 없습니다
```

innosm에 있는 pdf파일을 찾는다

8. ~ (home) 디렉토리로 이동하고, week5 폴더가 있는지 검색하려고 한다. 적절한 명령을 수행하여 week5 폴더를 검색하고 결과를 보이시오.

```
sunjae@sunjae:~ $ find . -type d -name "week5"
./week5_test/week5
./embedded/week5
sunjae@sunjae:~ $ []
```

<파일 용량 확인>

9. 아래 명령을 수행한 결과를 보이시오.

df -h

```
■ sunjae@sunjae:~ $ df -h
 Filesystem
                Size Used Avail Use% Mounted on
 /dev/root
                15G 3.5G 11G 25% /
                                  0% /dev
 devtmpfs
                1.8G
                        0 1.8G
 tmpfs
                        0 1.9G
                                  0% /dev/shm
                1.9G
                1.9G 8.6M 1.9G
                                  1% /run
 tmpfs
 tmpfs
                5.0M 4.0K 5.0M
                                  1% /run/lock
                        0 1.9G
                                  0% /sys/fs/cgroup
 tmpfs
                1.9G
 /dev/mmcblk0p1 253M
                       49M 204M 20% /boot
                                  1% /run/user/1000
                384M 4.0K 384M
 tmpfs
```

10. 아래 명령을 수행한 결과를 보이시오.

cd ~

cd embedded

du -h

```
sunjae@sunjae:~/embedded $ du -h
4.0M ./week5
12M .
```

11. 10번에서 현재 embedded 폴더의 총 사용량은(하위폴더 포함, 단위 표시)? 12M 12. cd embedded/week5 를 수행하여 위치를 이동하고, 아래 명령을 차례로 수행하시오 1) df .

```
● sunjae@sunjae:~/embedded/week5 $ df .
Filesystem 1K-blocks Used Available Use% Mounted on /dev/root 14986204 3570556 10754140 25% /
● sunjae@sunjae:~/embedded/week5 $ □
2) 이 폴더에 temp_file 파일 생정하고 파일에 1을 기록
```

```
∨ week5
   / IFC181_01.pdf

↓ IFC181 02.pdf

                                                                    The file is not displayed in the te
   J IFC181_03.pdf
                                                                                   uses an unsupp
   J IFC181_04.pdf
   J IFC181_05.pdf
                                                                                            Ope
   J IFC181_06.pdf
   J IFC181 07.pdf
   J IFC181_08.pdf
   J IFC181_09.pdf

↓ IFC181_10.pdf

♣ IFC181_11.pdf

   J IFC181_12.pdf
                                     PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
   J IFC181 13.pdf
   J IFC181 14.pdf
                                      Filesystem
                                                     Size Used Avail Use% Mounted on

    temp_file

                                      /dev/root
                                                     15G 3.5G 11G 25% /
                                                     1.8G 0 1.8G 0% /dev
                                     devtmpfs

☐ IFC181_re.tar
                                                    1.9G
                                                             0 1.9G
                                                                       0% /dev/shm
                                     tmpfs

    IFC181.tan
                                                                        1% /run
                                     tmpfs
                                                     1.9G 8.6M 1.9G
  > Music
                                                     5.0M 4.0K 5.0M
                                      tmpfs
                                                                        1% /run/lock
                                                            0 1.9G 0% /sys/fs/cgroup
                                     tmpfs
                                                     1.9G
  > Pictures
                                     /dev/mmcblk0p1 253M 49M 204M 20% /boot
  > Public
                                                     384M 4.0K 384M 1% /run/user/1000
  > Templates
                                    sunjae@sunjae:~ $ cd embedded
                                    ■ sunjae@sunjae:~/embedded $ du -h
  > Videos
                                     4.0M
                                             ./week5
 ∨ week5 test
                                     12M
  ∨ week5

■ sunjae@sunjae:~/embedded $ cd ~
   J IFC181_01.pdf
                                    sunjae@sunjae:~ $ cd embedded/week5
                                    sunjae@sunjae:~/embedded/week5 $ df .

→ IFC181_02.pdf

                                     Filesystem 1K-blocks Used Available Use% Mounted on
   J IFC181 03.pdf
                                                    14986204 3570556 10754140 25% /
                                     /dev/root
> OUTLINE
                                    sunjae@sunjae:~/embedded/week5 $ df . > temp_file
> TIMELINE
                                    □ sunjae@sunjae:~/embedded/week5 $ [
```

3) stat temp_file 명령을 통해 파일의 크기를 확인

```
Sunjae@sunjae:~/embedded/week5 $ stat temp_file
File: temp_file
Size: 109 Blocks: 8 IO Block: 4096 일반 파일
Device: b302h/45826d Inode: 266859 Links: 1
Access: (0644/-rw-r--r--) Uid: (1000/ sunjae) Gid: (1000/ sunjae)
Access: 2024-10-06 23:01:53.364029725 +0900
Modify: 2024-10-06 23:01:53.364029725 +0900
Change: 2024-10-06 23:01:53.364029725 +0900
Birth: -
```

4) df .

```
sunjae@sunjae:~/embedded/week5 $ df .
Filesystem 1K-blocks Used Available Use% Mounted on
/dev/root 14986204 3570560 10754136 25% /
sunjae@sunjae:~/embedded/week5 $ []
```

1)과 4)에서 줄어든 용량과 3)에서 확인한 용량이 다르다면 그 이유는? df. 는 전체 파일에서의 용량을 보여주고 stat temp_file은 특정 파일의 크기를 보여주기 때 문이다.

<cpu architecture>

13. 현재 사용하는 라즈비언 OS가 몇비트 시스템인지 확인하고 결과를 첨부하시오.

```
sunjae@sunjae:~/embedded/week5 $ uname -m
armv71
sunjae@sunjae:~/embedded/week5 $ []
```

32비트이다.