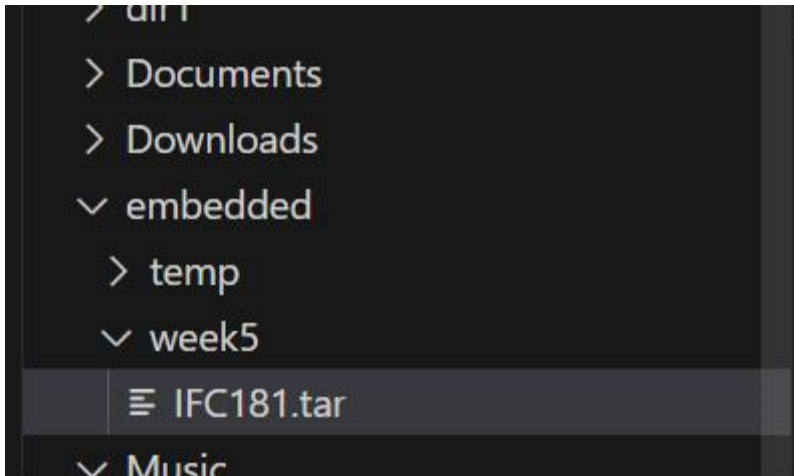


결과 보고서

과제2. 5주차 homework

과 목 명	머신러닝
학 번	2020161024
이 름	김 진 혁
제 출 일	2024년 10월 3일

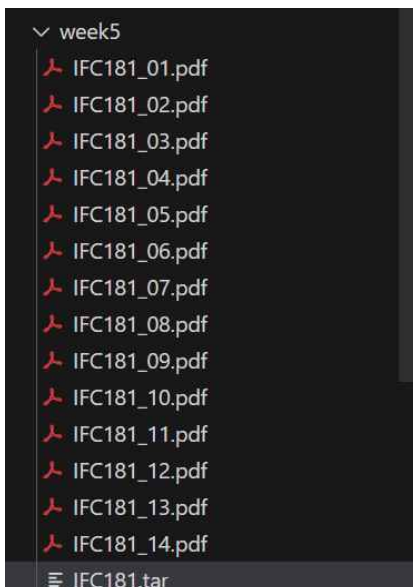
1. IFC181.tar 파일을 받아 ~/embedded/week5로 옮긴다.



2-1. 소스코드

```
jinxang@jinxang:~ $ cd embedded
jinxang@jinxang:~/embedded $ cd week5
jinxang@jinxang:~/embedded/week5 $ tar -xvf IFC181.tar
IFC181_14.pdf
IFC181_01.pdf
IFC181_02.pdf
IFC181_03.pdf
IFC181_04.pdf
IFC181_05.pdf
IFC181_06.pdf
IFC181_07.pdf
IFC181_08.pdf
IFC181_09.pdf
IFC181_10.pdf
IFC181_11.pdf
IFC181_12.pdf
IFC181_13.pdf
```

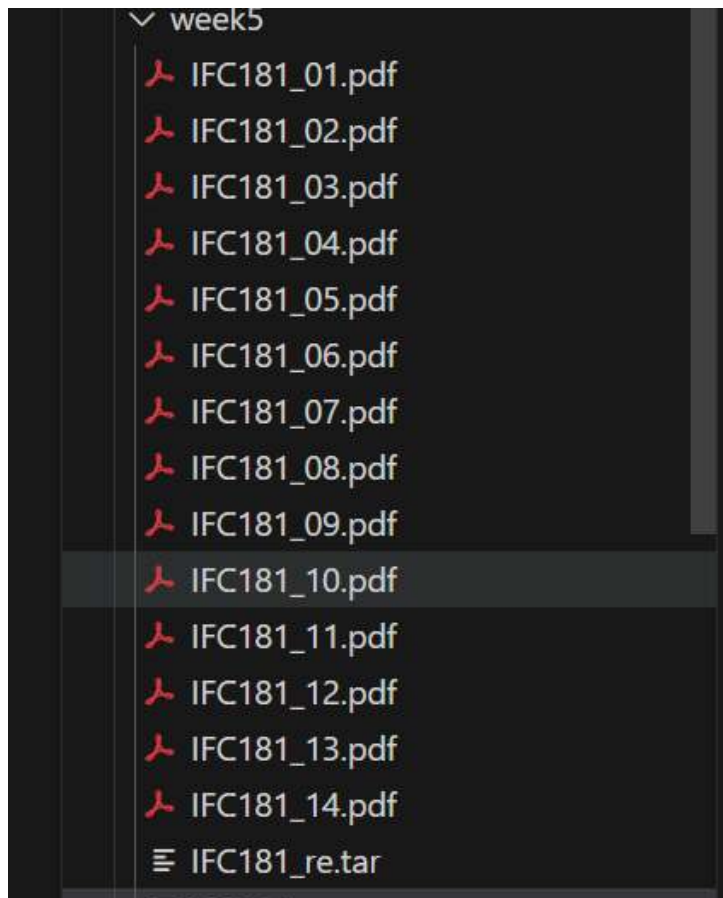
2-2. 실행결과



3-1. 소스코드

```
jinxang@jinxang:~/embedded/week5 $ tar -cvf IFC181_re.tar IFC*
IFC181_01.pdf
IFC181_02.pdf
IFC181_03.pdf
IFC181_04.pdf
IFC181_05.pdf
IFC181_06.pdf
IFC181_07.pdf
IFC181_08.pdf
IFC181_09.pdf
IFC181_10.pdf
IFC181_11.pdf
IFC181_12.pdf
IFC181_13.pdf
IFC181_14.pdf
IFC181.tar
```

3-2. 실행결과



4-1. 소스코드

```
• jinxxang@jinxxang:~/embedded/week5 $ zip IFC181_re.zip IFC*  
  adding: IFC181_01.pdf (deflated 17%)  
  adding: IFC181_02.pdf (deflated 5%)  
  adding: IFC181_03.pdf (deflated 22%)  
  adding: IFC181_04.pdf (deflated 19%)  
  adding: IFC181_05.pdf (deflated 13%)  
  adding: IFC181_06.pdf (deflated 15%)  
  adding: IFC181_07.pdf (deflated 13%)  
  adding: IFC181_08.pdf (deflated 15%)  
  adding: IFC181_09.pdf (deflated 10%)  
  adding: IFC181_10.pdf (deflated 21%)  
  adding: IFC181_11.pdf (deflated 15%)  
  adding: IFC181_12.pdf (deflated 18%)  
  adding: IFC181_13.pdf (deflated 17%)  
  adding: IFC181_14.pdf (deflated 19%)  
  adding: IFC181_re.tar (deflated 17%)  
  adding: IFC181.tar (deflated 17%)  
• jinxxang@jinxxang:~/embedded/week5 $
```

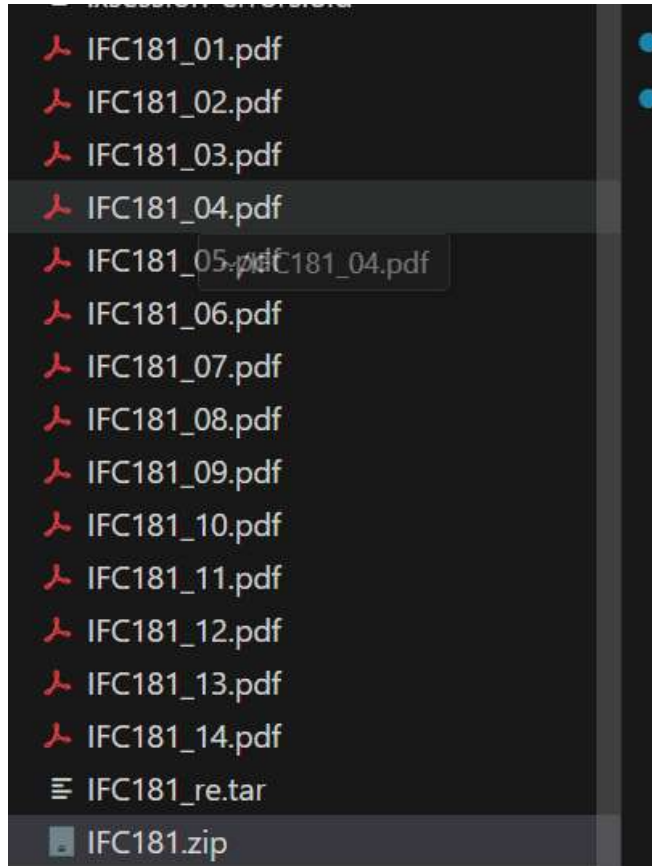
4-2. 실행결과

```
df  IFC181_13.pdf  IFC181_re.zip  
df  IFC181_14.pdf  IFC181.tar  
df  IFC181_re.tar
```

5-1. 소스코드

```
jinxang@jinxang:~/embedded/week5 $ unzip IFC181_re.zip
```

5-2. 실행결과



```
jinxang@jinxang:~$ ls
Bookshelf  Documents  IFC181_02.pdf  IFC181_06.pdf  IFC181_10.pdf  IFC181_14.pdf  Pictures
Desktop    Downloads  IFC181_03.pdf  IFC181_07.pdf  IFC181_11.pdf  IFC181_re.tar  Public
dir        embedded   IFC181_04.pdf  IFC181_08.pdf  IFC181_12.pdf  IFC181.zip     Templates
dir1       IFC181_01.pdf IFC181_05.pdf  IFC181_09.pdf  IFC181_13.pdf  Music          Videos
```

6-1. 소스코드

```
• jinxxang@jinxxang:~ $ find ~/embedded -name "*.pdf"
```

6-2. 실행결과

```
/home/jinxxang/embedded/week5/IFC181_05.pdf
/home/jinxxang/embedded/week5/IFC181_04.pdf
/home/jinxxang/embedded/week5/IFC181_08.pdf
/home/jinxxang/embedded/week5/IFC181_12.pdf
/home/jinxxang/embedded/week5/IFC181_09.pdf
/home/jinxxang/embedded/week5/IFC181_07.pdf
/home/jinxxang/embedded/week5/IFC181_13.pdf
/home/jinxxang/embedded/week5/IFC181_02.pdf
/home/jinxxang/embedded/week5/IFC181_01.pdf
/home/jinxxang/embedded/week5/IFC181_14.pdf
/home/jinxxang/embedded/week5/IFC181_11.pdf
/home/jinxxang/embedded/week5/IFC181_10.pdf
/home/jinxxang/embedded/week5/IFC181_03.pdf
/home/jinxxang/embedded/week5/IFC181_06.pdf
```

7-1.

```
⊗ jinxxang@jinxxang:~ $ find . -name *.pdf
find: paths must precede expression: `IFC181_02.pdf'
find: possible unquoted pattern after predicate `-name'?
```

현재 디렉토리 즉 홈에서 찾으려면 embedded 안으로 들어가서 찾아야 하는데 그렇지 못하여 결과가 안나옴, 또한 ""을 해주지 않으면 쉘 확장으로 인해 오류가 발생함

7-2.

```
⊗ jinxxang@jinxxang:~ $ find ./ -name *.pdf
find: paths must precede expression: `IFC181_02.pdf'
find: possible unquoted pattern after predicate `-name'?
```

1번과 마찬가지로 홈에서 찾을 때 명령어를 잘못 넣었고 ""를 넣지 않음

7-3.

```
⊗ jinxxang@jinxxang:~ $ find -name *.pdf
find: paths must precede expression: `IFC181_02.pdf'
find: possible unquoted pattern after predicate `-name'?
```

1,2번과 동일

7-4.

```
⊗ jinxxang@jinxxang:~ $ find /home/jinxxang -name *.pdf
find: paths must precede expression: `IFC181_02.pdf'
find: possible unquoted pattern after predicate `-name'?
```

위와 동일

8. 소스코드, 실행결과

```
jinxxang@jinxxang:~ $ find ~ type d -name "week5"  
/home/jinxxang/embedded/week5
```

9. 소스코드, 실행결과

```
jinxxang@jinxxang:~ $ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
/dev/root        15G  4.0G   9.8G  29% /  
devtmpfs         1.8G   0    1.8G   0% /dev  
tmpfs            1.9G   0    1.9G   0% /dev/shm  
tmpfs            1.9G  8.6M   1.9G   1% /run  
tmpfs            5.0M  4.0K   5.0M   1% /run/lock  
tmpfs            1.9G   0    1.9G   0% /sys/fs/cgroup  
/dev/mmcblk0p1  253M   49M   204M  20% /boot  
tmpfs            384M  4.0K   384M   1% /run/user/1000
```

10. 소스코드, 실행결과

```
jinxxang@jinxxang:~ $ cd ~  
jinxxang@jinxxang:~ $ cd embedded  
jinxxang@jinxxang:~/embedded $ du -h  
58M      ./week5  
4.0K     ./temp  
58M      .
```

11. 소스코드, 실행결과

```
jinxxang@jinxxang:~/embedded $ du -sh  
58M      .
```

58 Megabyte

12-1.

```
• jinxxang@jinxxang:~ $ cd embedded/week5
• jinxxang@jinxxang:~/embedded/week5 $ df .
Filesystem      1K-blocks    Used Available Use% Mounted on
/dev/root        14986204 4111960  10212736  29% /
```

12-2.

```
embedded > week5 > temp_file
1 1
2

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

• jinxxang@jinxxang:~/embedded/week5 $ touch temp_file
• jinxxang@jinxxang:~/embedded/week5 $ echo 1 > temp_file
```

12-3.

```
• jinxxang@jinxxang:~/embedded/week5 $ stat temp_file
File: temp_file
Size: 2          Blocks: 8          IO Block: 4096   regular file
Device: b302h/45826d Inode: 394245      Links: 1
Access: (0644/-rw-r--r--)  Uid: ( 1000/jinxxang)   Gid: ( 1000/jinxxang)
Access: 2024-10-03 08:34:22.711716948 +0100
Modify: 2024-10-03 08:35:19.090733041 +0100
Change: 2024-10-03 08:35:19.090733041 +0100
Birth: -
```

12-4.

```
• jinxxang@jinxxang:~/embedded/week5 $ df .
Filesystem      1K-blocks    Used Available Use% Mounted on
/dev/root        14986204 4111964  10212732  29% /
```

1)과 4)에서 줄어든 용량과 3)에서 확인한 용량이 다르다면 그 이유는?

1에서 4로 줄어든 용량은 4이다 하지만 3에서 확인한 용량은 2이다. 그 이유는 실제로 작은 데이터를 저장한다해도 파일 시스템 상 블록 데이터로 저장하기 때문에 용량은 4byte를 차지하게 되는 것이다.

13.

```
• jinxxang@jinxxang:~/embedded/week5 $ uname -m  
armv7l
```

결과가 armv7l이므로 32비트다.