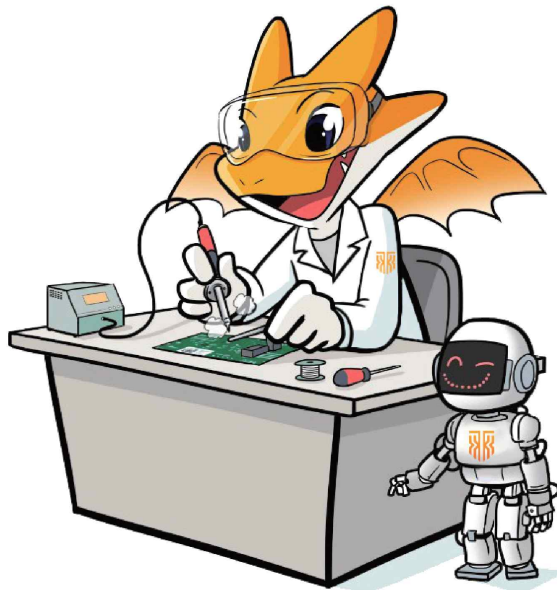
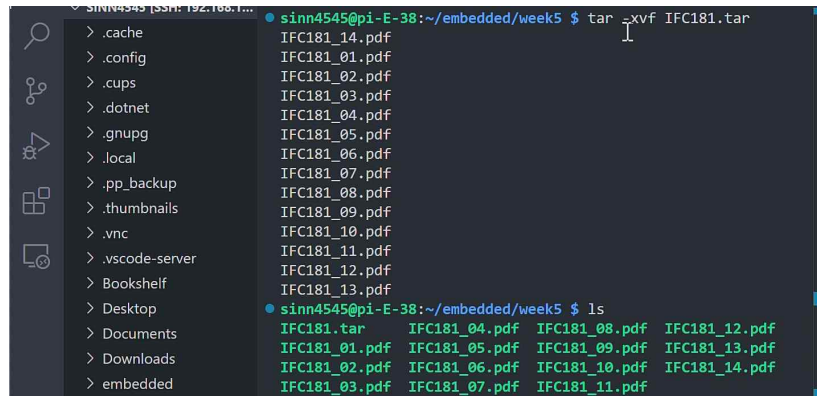

homework_week5



제 출 일	24.10.07
과 목 명	임베디드 응용 및 실습
담당교수님	우성민 교수님
학 과	전자공학과
학 번	2020161060
이 름	신규철

< 파일 압축 해제 >

1. tar 명령으로 압축 해제



```
sinn4545@pi-E-38:~/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
sinn4545@pi-E-38:~/embedded/week5 $ ls
IFC181.tar  IFC181_04.pdf  IFC181_08.pdf  IFC181_12.pdf
IFC181_01.pdf  IFC181_05.pdf  IFC181_09.pdf  IFC181_13.pdf
IFC181_02.pdf  IFC181_06.pdf  IFC181_10.pdf  IFC181_14.pdf
IFC181_03.pdf  IFC181_07.pdf  IFC181_11.pdf
```

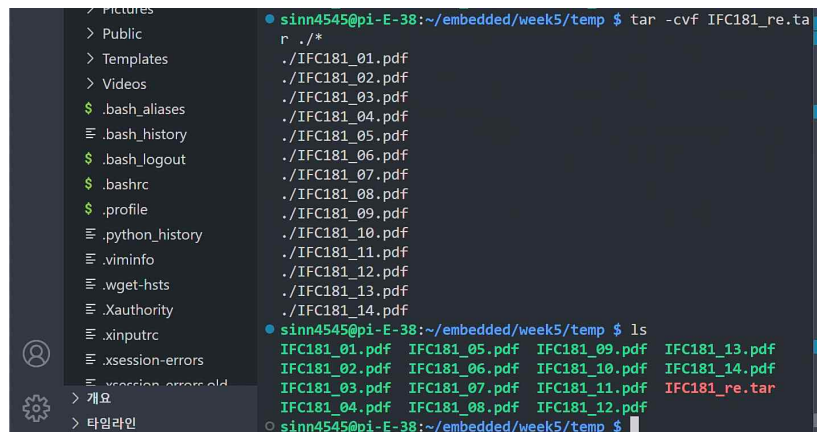
tar 명령어는 다음과 같은 구조로 되어있다.

tar [옵션...] [파일]...

우리가 사용하는 옵션의 의미는 다음과 같다.

- c: 새로운 아카이브(archive)를 생성
- f: 아카이브를 생성 또는 추출할 파일 이름 지정
- v: 아카이브 생성 또는 추출하는 과정을 화면에 출력한다.
- x: 아카이브에서 파일과 폴더를 추출한다.

2. 압축 해제된 파일들을 “IFC181_re.tar”로 압축



```
sinn4545@pi-E-38:~/embedded/week5/temp $ tar -cvf IFC181_re.tar ./
./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
sinn4545@pi-E-38:~/embedded/week5/temp $ ls
IFC181_01.pdf  IFC181_05.pdf  IFC181_09.pdf  IFC181_13.pdf
IFC181_02.pdf  IFC181_06.pdf  IFC181_10.pdf  IFC181_14.pdf
IFC181_03.pdf  IFC181_07.pdf  IFC181_11.pdf  IFC181_re.tar
IFC181_04.pdf  IFC181_08.pdf  IFC181_12.pdf
```

temp 폴더 내부의 모든 파일을 IFC181_re.tar 으로 압축

3. 압축 해제된 파일들을 zip 명령으로 “IFC181_re.zip”으로 압축

```
> Downloads
> embedded
> Music
> Pictures
> Public
> Templates
> Videos
$ .bash_aliases
$ .bash_history
$ .bash_logout
$ .bashrc
$ .profile
$ .python_history
$ .viminfo
$ .wget-hsts
$ .Xauthority
$ .xinputrc
$ .xsession-errors
$ .xsession-errors.old
> 개요
> 타일라인

sinn4545@pi-E-38:~/embedded/week5/temp $ ls
IFC181_01.pdf IFC181_05.pdf IFC181_09.pdf IFC181_13.pdf
IFC181_02.pdf IFC181_06.pdf IFC181_10.pdf IFC181_14.pdf
IFC181_03.pdf IFC181_07.pdf IFC181_11.pdf
IFC181_04.pdf IFC181_08.pdf IFC181_12.pdf
sinn4545@pi-E-38:~/embedded/week5/temp $ zip IFC181_re.zip ./
adding: IFC181_01.pdf (deflated 20%)
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%)
sinn4545@pi-E-38:~/embedded/week5/temp $ ls
IFC181_01.pdf IFC181_05.pdf IFC181_09.pdf IFC181_13.pdf
IFC181_02.pdf IFC181_06.pdf IFC181_10.pdf IFC181_14.pdf
IFC181_03.pdf IFC181_07.pdf IFC181_11.pdf IFC181_re.zip
IFC181_04.pdf IFC181_08.pdf IFC181_12.pdf
sinn4545@pi-E-38:~/embedded/week5/temp $
```

temp 폴더 내부의 모든 파일을 IFC181_re.zip으로 압축

4. “IFC181_re.zip”파일을 unzip 명령을 통해 압축 해제

```
> .gnupg
> .local
> .pp_backup
> .thumbnails
> .vnc
> .vscode-server
> Bookshelf
> Desktop
> Documents
> Downloads
> embedded
> Music
> Pictures
> Public
> Templates
> Videos
$ .bash_aliases
$ .bash_history
$ .bash_logout
$ .bashrc
$ .profile
$ .python_history
$ .viminfo
$ .wget-hsts
$ .Xauthority
$ .xinputrc
$ .xsession-errors
$ .xsession-errors.old
> 개요
> 타일라인

sinn4545@pi-E-38:~/embedded/week5/temp $ mv IFC181_re.zip ../
sinn4545@pi-E-38:~/embedded/week5/temp $ cd ..
sinn4545@pi-E-38:~/embedded/week5 $ ls
IFC181.tar IFC181_re.tar IFC181_re.zip temp
sinn4545@pi-E-38:~/embedded/week5 $ unzip IFC181_re.zip -d IFC181_re
Archive: IFC181_re.zip
  inflating: IFC181_re/IFC181_01.pdf
  inflating: IFC181_re/IFC181_02.pdf
  inflating: IFC181_re/IFC181_03.pdf
  inflating: IFC181_re/IFC181_04.pdf
  inflating: IFC181_re/IFC181_05.pdf
  inflating: IFC181_re/IFC181_06.pdf
  inflating: IFC181_re/IFC181_07.pdf
  inflating: IFC181_re/IFC181_08.pdf
  inflating: IFC181_re/IFC181_09.pdf
  inflating: IFC181_re/IFC181_10.pdf
  inflating: IFC181_re/IFC181_11.pdf
  inflating: IFC181_re/IFC181_12.pdf
  inflating: IFC181_re/IFC181_13.pdf
  inflating: IFC181_re/IFC181_14.pdf
sinn4545@pi-E-38:~/embedded/week5 $ dir
  합계 11576
-rwxr-xr-x 1 sinn4545 sinn4545 4174336 10월  2 11:05 IFC181_re.zip
drwxr-xr-x 2 sinn4545 sinn4545  4096 10월  7 19:47 IFC181_re
-rw-r--r-- 1 sinn4545 sinn4545 4177920 10월  7 19:46 IFC181_re
-rw-r--r-- 1 sinn4545 sinn4545 3486540 10월  7 19:46 IFC181_re
drwxr-xr-x 2 sinn4545 sinn4545  4096 10월  7 19:47 temp
sinn4545@pi-E-38:~/embedded/week5 $ cd IFC181_re/
sinn4545@pi-E-38:~/embedded/week5/IFC181_re $ ls
IFC181_01.pdf IFC181_05.pdf IFC181_09.pdf IFC181_13.pdf
IFC181_02.pdf IFC181_06.pdf IFC181_10.pdf IFC181_14.pdf
IFC181_03.pdf IFC181_07.pdf IFC181_11.pdf
IFC181_04.pdf IFC181_08.pdf IFC181_12.pdf
sinn4545@pi-E-38:~/embedded/week5/IFC181_re $
```

-d 옵션을 사용해 IFC181_re 폴더에 압축 해제

1. 아래의 명령 결과가 동일한지 아닌지 결과를 보이고 동작 결과를 설명하시
오

-d

```

sinn4545[S4S: 192.168.137.78]
출력 터미널 ... + ▾ bash - sinn4545
sinn4545@p1-E-38: ~/embedded/weeks $ cd ~
sinn4545@p1-E-38: ~$ find . -name *.pdf
./Bookshelf/BeginnersGuide-4thEd-v2.pdf
./embedded/weeks/IFC181_re/IFC181_05.pdf
./embedded/weeks/IFC181_re/IFC181_04.pdf
./embedded/weeks/IFC181_re/IFC181_08.pdf
./embedded/weeks/IFC181_re/IFC181_12.pdf
./embedded/weeks/IFC181_re/IFC181_09.pdf
./embedded/weeks/IFC181_re/IFC181_07.pdf
./embedded/weeks/IFC181_re/IFC181_13.pdf
./embedded/weeks/IFC181_re/IFC181_02.pdf
./embedded/weeks/IFC181_re/IFC181_01.pdf
./embedded/weeks/IFC181_re/IFC181_14.pdf
./embedded/weeks/IFC181_re/IFC181_11.pdf
./embedded/weeks/IFC181_re/IFC181_10.pdf
./embedded/weeks/IFC181_re/IFC181_03.pdf
./embedded/weeks/IFC181_re/IFC181_06.pdf
./embedded/weeks/temp/IFC181_05.pdf
./embedded/weeks/temp/IFC181_04.pdf
./embedded/weeks/temp/IFC181_08.pdf
./embedded/weeks/temp/IFC181_12.pdf
./embedded/weeks/temp/IFC181_09.pdf
./embedded/weeks/temp/IFC181_07.pdf
./embedded/weeks/temp/IFC181_13.pdf
./embedded/weeks/temp/IFC181_02.pdf
./embedded/weeks/temp/IFC181_01.pdf
./embedded/weeks/temp/IFC181_14.pdf
./embedded/weeks/temp/IFC181_11.pdf
./embedded/weeks/temp/IFC181_10.pdf
./embedded/weeks/temp/IFC181_03.pdf
./embedded/weeks/temp/IFC181_06.pdf
sinn4545@p1-E-38: ~$

```

```

sinn4545 [SSH: 192.168.137.78]
총액  타미반  ...  +  bash - sinn4545

sinn4545@pi-E-38: ~$ find ./ -name *.pdf
./Bookshelf/BeginnersGuide-4thEd-Eng_v2.pdf
./embeddedd/weeks/1FC181_re/1FC181_05.pdf
./embeddedd/weeks/1FC181_re/1FC181_04.pdf
./embeddedd/weeks/1FC181_re/1FC181_08.pdf
./embeddedd/weeks/1FC181_re/1FC181_12.pdf
./embeddedd/weeks/1FC181_re/1FC181_09.pdf
./embeddedd/weeks/1FC181_re/1FC181_07.pdf
./embeddedd/weeks/1FC181_re/1FC181_13.pdf
./embeddedd/weeks/1FC181_re/1FC181_02.pdf
./embeddedd/weeks/1FC181_re/1FC181_01.pdf
./embeddedd/weeks/1FC181_re/1FC181_14.pdf
./embeddedd/weeks/1FC181_re/1FC181_11.pdf
./embeddedd/weeks/1FC181_re/1FC181_10.pdf
./embeddedd/weeks/1FC181_re/1FC181_03.pdf
./embeddedd/weeks/1FC181_re/1FC181_06.pdf
./embeddedd/weeks/temp/1FC181_05.pdf
./embeddedd/weeks/temp/1FC181_04.pdf
./embeddedd/weeks/temp/1FC181_08.pdf
./embeddedd/weeks/temp/1FC181_12.pdf
./embeddedd/weeks/temp/1FC181_09.pdf
./embeddedd/weeks/temp/1FC181_07.pdf
./embeddedd/weeks/temp/1FC181_13.pdf
./embeddedd/weeks/temp/1FC181_02.pdf
./embeddedd/weeks/temp/1FC181_01.pdf
./embeddedd/weeks/temp/1FC181_14.pdf
./embeddedd/weeks/temp/1FC181_11.pdf
./embeddedd/weeks/temp/1FC181_10.pdf
./embeddedd/weeks/temp/1FC181_03.pdf
./embeddedd/weeks/temp/1FC181_06.pdf

sinn4545@pi-E-38: ~$

```

```

sinn4545 [SSH: 192.168.137.78]
줄리크  타미난 ... + ▾ bash -sinn4545
● sinn4545@epi-E-38: ~ $ find -name *.pdf
./Bookshelf/BeginnersGuide-4thed-Eng-v2.pdf
./embedded/weeks/1FC181_re/1FC181_05.pdf
./embedded/weeks/1FC181_re/1FC181_04.pdf
./embedded/weeks/1FC181_re/1FC181_08.pdf
./embedded/weeks/1FC181_re/1FC181_12.pdf
./embedded/weeks/1FC181_re/1FC181_09.pdf
./embedded/weeks/1FC181_re/1FC181_07.pdf
./embedded/weeks/1FC181_re/1FC181_13.pdf
./embedded/weeks/1FC181_re/1FC181_02.pdf
./embedded/weeks/1FC181_re/1FC181_01.pdf
./embedded/weeks/1FC181_re/1FC181_14.pdf
./embedded/weeks/1FC181_re/1FC181_11.pdf
./embedded/weeks/1FC181_re/1FC181_10.pdf
./embedded/weeks/1FC181_re/1FC181_03.pdf
./embedded/weeks/1FC181_re/1FC181_06.pdf
./embedded/weeks/tmp/1FC181_05.pdf
./embedded/weeks/tmp/1FC181_04.pdf
./embedded/weeks/tmp/1FC181_08.pdf
./embedded/weeks/tmp/1FC181_12.pdf
./embedded/weeks/tmp/1FC181_09.pdf
./embedded/weeks/tmp/1FC181_07.pdf
./embedded/weeks/tmp/1FC181_13.pdf
./embedded/weeks/tmp/1FC181_02.pdf
./embedded/weeks/tmp/1FC181_01.pdf
./embedded/weeks/tmp/1FC181_14.pdf
./embedded/weeks/tmp/1FC181_11.pdf
./embedded/weeks/tmp/1FC181_10.pdf
./embedded/weeks/tmp/1FC181_03.pdf
./embedded/weeks/tmp/1FC181_06.pdf
● sinn4545@epi-E-38: ~ $

```

- 1). "find . -name *.pdf" 2). "find ./ -name *.pdf" 3). "find -name *.pdf"

```

sim445 [SSH-192.168.137.778]
술러 네비날 ... +v hash sim4545 ...
~
sim4545@Sp1-1-38: ~$ find -name *.pdf
/home/sim4545/Books/1e7/beginners-guide-4tkb-Eng_v2.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_05.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_04.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_08.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_07.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_09.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_07.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_13.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_02.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_01.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_10.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_11.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_10.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_03.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_06.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_09.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_04.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_08.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_12.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_09.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_07.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_03.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_02.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_01.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_14.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_11.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_10.pdf
/home/sim4545/embedded/week5/IFC181_rpt/IFC181_06.pdf
sim4545@Sp1-1-38: ~$

```

```


$ sshnns445 [SSH: 192.168.137.78]
줄리 테리널 ... + v bash - sshnns445 ...
$ sshnns445@p1:~$ find /home/sinnns445 -name *.pdf
/home/sinnns445/Books/Book1/BeginnersGuide-4tktd-Eng_v2
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_05.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_04.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_08.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_07.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_09.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_07.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_13.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_09.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_10.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_11.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_08.pdf
/home/sinnns445/Embedded/week5/KF1C81_9p/1FC181_06.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_12.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_09.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_07.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_13.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_08.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_01.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_14.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_11.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_10.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_06.pdf
/home/sinnns445/Embedded/week5/Temp/1FC181_05.pdf
$ sshnns445@p1:~$ ssh -S

```

- 4). "find ~ -name *.pdf" 5). "find /home/sinn4545 -name *.pdf"

실행 결과 1), 2), 3)은 출력 결과가 모두 현재 폴더(~경로)에서 시작하는 것과 4), 5)는 파일의 경로를 root 경로부터 표시하는 것을 확인할 수 있었다.

2. 적절한 명령을 수행하여 week5 폴더를 검색하고 결과를 보이시오.



```

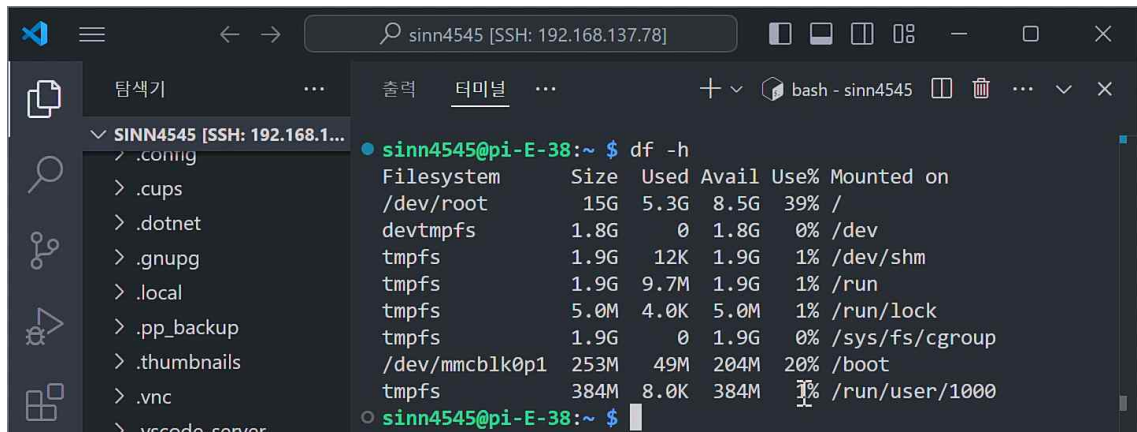
SINN4545 [SSH: 192.168.1...
> .cache
> .config
> .cups
sinn4545@pi-E-38:~ $ find ./ -type d -name "week5"
./embedded/week5
sinn4545@pi-E-38:~ $
```

-type을 사용하여 폴더를 지정하고 -name을 사용하여 폴더 이름을 지정한다.

< 파일 용량 확인 >

1. 다음 명령을 수행한 결과를 보이시오.

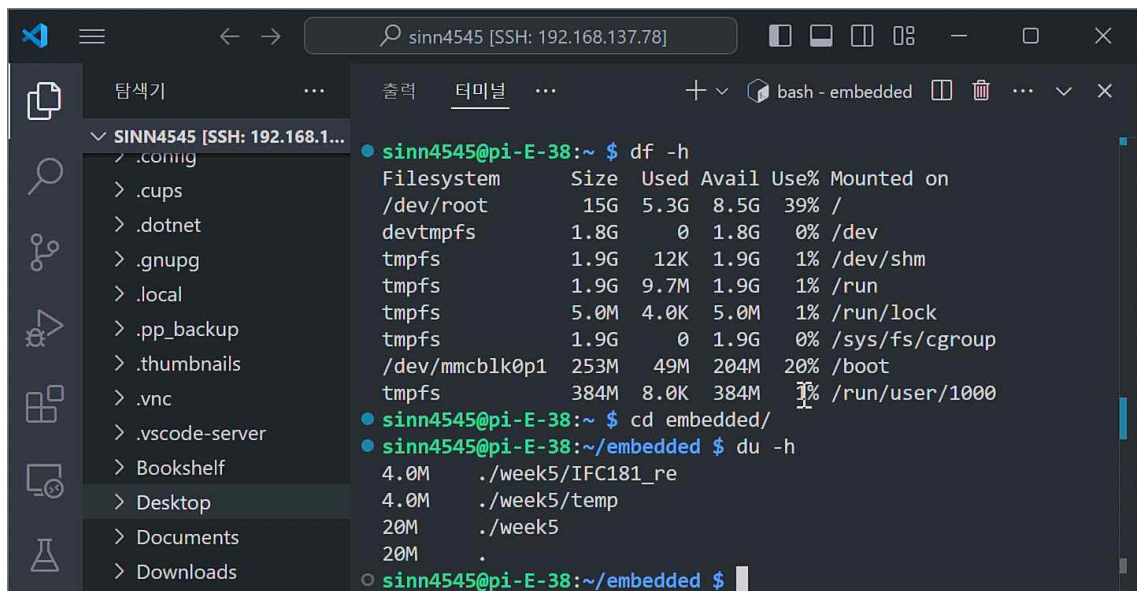
```
df -h
```



```
sinn4545 [SSH: 192.168.137.78]
SINN4545 [SSH: 192.168.137.78]
> .config
> .cups
> .dotnet
> .gnupg
> .local
> .pp_backup
> .thumbnails
> .vnc
> .vscode-server
sinn4545@pi-E-38:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root        15G   5.3G   8.5G  39% /
devtmpfs         1.8G     0   1.8G   0% /dev
tmpfs            1.9G   12K   1.9G   1% /dev/shm
tmpfs            1.9G   9.7M   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   8.0K   384M   1% /run/user/1000
sinn4545@pi-E-38:~$
```

2. 다음 명령을 수행한 결과를 보이시오.

```
cd ~
cd embedded
du -h
```



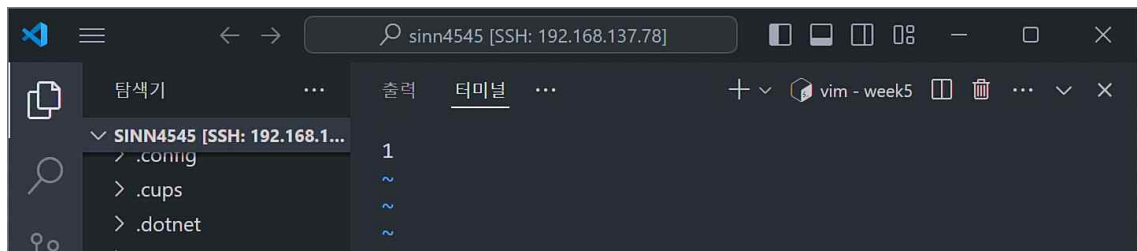
```
sinn4545 [SSH: 192.168.137.78]
SINN4545 [SSH: 192.168.137.78]
> .config
> .cups
> .dotnet
> .gnupg
> .local
> .pp_backup
> .thumbnails
> .vnc
> .vscode-server
> Bookshelf
> Desktop
> Documents
> Downloads
sinn4545@pi-E-38:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root        15G   5.3G   8.5G  39% /
devtmpfs         1.8G     0   1.8G   0% /dev
tmpfs            1.9G   12K   1.9G   1% /dev/shm
tmpfs            1.9G   9.7M   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   8.0K   384M   1% /run/user/1000
sinn4545@pi-E-38:~$ cd embedded/
sinn4545@pi-E-38:~/embedded$ du -h
4.0M  ./week5/IFC181_re
4.0M  ./week5/temp
20M   ./week5
20M   .
sinn4545@pi-E-38:~/embedded$
```

3. 현재 embedded 폴더의 총 사용량은(하위폴더 포함, 단위 표시)?

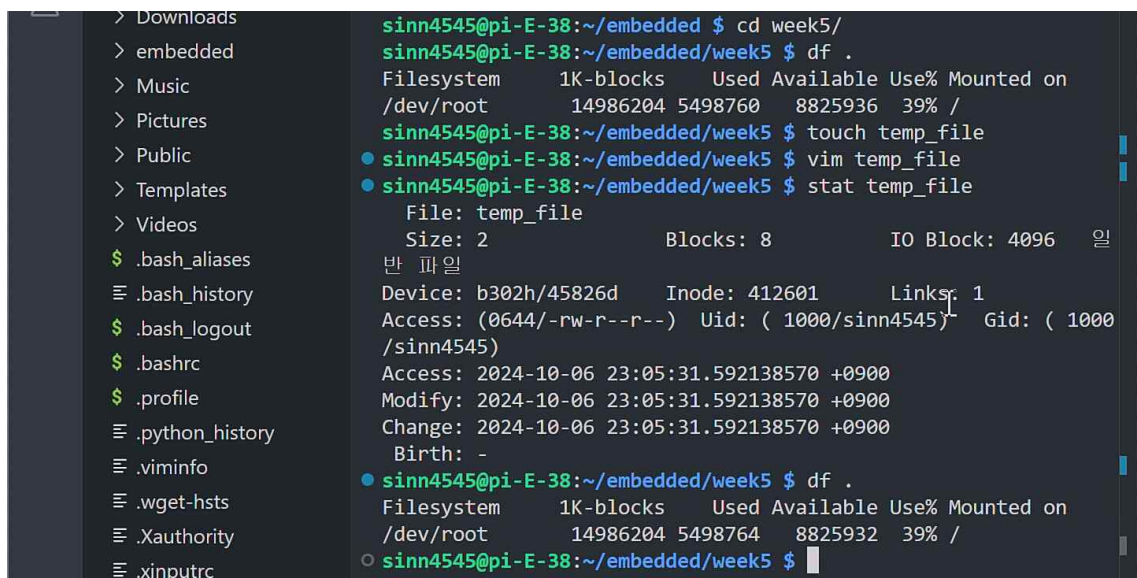
embedded 폴더의 총사용량은 20M이다.

4. cd embedded/week5 를 수행하여 위치를 이동하고, 아래 명령을 차례로 수행하시오. 1)과 4)에서 줄어든 용량과 3)에서 확인한 용량이 다르다면 그 이유는?

- 1) df .
- 2) 이 폴더에 temp_file 파일 생성하고 파일에 1을 기록
- 3) stat temp_file 명령을 통해 파일의 크기를 확인
- 4) df .



temp_file에 1 기록.



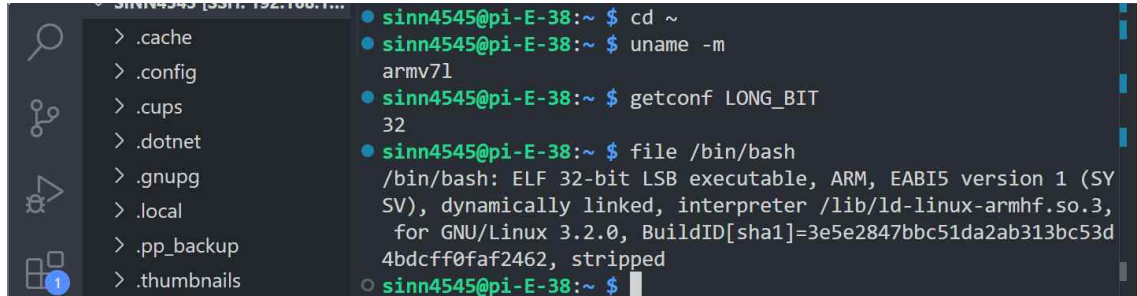
먼저, 1K-blocks는 1KB(1024Byte)를 의미한다.

1)에서 살펴본 ~/embedded/week5의 사용된 용량은 5498760K가 사용되었다. temp_file을 생성 후 사용된 용량은 5498764K로 이전보다 4K 늘어난 것을 확인할 수 있다.

3)의 경우 temp_file의 크기는 2바이트이고 사용된 블록 수는 8개이다. 하지만 입출력 작업 때 사용되는 블록 크기는 4096 바이트 (4KB) 이다. 따라서 실제로 파일이 저장될 때 내용이 적을 경우 4KB로 강제 할당되어 4KB가 사용되는 것을 확인할 수 있다.

< cpu architecture >

1. 현재 사용하는 라즈비언 OS가 몇비트 시스템인지 확인하고 결과를 첨부하십시오.



```
sinn4545@pi-E-38:~$ cd ~
sinn4545@pi-E-38:~$ uname -m
armv7l
sinn4545@pi-E-38:~$ getconf LONG_BIT
32
sinn4545@pi-E-38:~$ file /bin/bash
/bin/bash: ELF 32-bit LSB executable, ARM, EABI5 version 1 (SYSV), dynamically linked, interpreter /lib/ld-linux-armhf.so.3, for GNU/Linux 3.2.0, BuildID[sha1]=3e5e2847bbc51da2ab313bc53d4bdcff0faf2462, stripped
sinn4545@pi-E-38:~$
```

The image shows a terminal window with a file explorer on the left. The file explorer lists directories: .cache, .config, .cups, .dotnet, .gnupg, .local, .pp_backup, and .thumbnails. The terminal window shows the user 'sinn4545' at host 'pi-E-38' in the home directory. They run the command 'cd ~', then 'uname -m' which returns 'armv7l'. Next, they run 'getconf LONG_BIT' which returns '32'. Finally, they run 'file /bin/bash' which returns detailed information about the bash binary: 'ELF 32-bit LSB executable, ARM, EABI5 version 1 (SYSV), dynamically linked, interpreter /lib/ld-linux-armhf.so.3, for GNU/Linux 3.2.0, BuildID[sha1]=3e5e2847bbc51da2ab313bc53d4bdcff0faf2462, stripped'.

32bit 시스템인 것을 알 수 있었다.