

# 201600779 김영민 colab

In [1]:

```
from google.colab import drive  
drive.mount('/content/drive')
```

Mounted at /content/drive

In [3]:

```
from importlib import import_module

required_packages = [

    ("torch", "파이토치"),

    ("torchvision", "토치비전"),

    ("torchtex", "토치텍스트"),

    ("numpy", "넘파이"),

    ("matplotlib", "맷플롯립"),

    ("sklearn", "사이킷런"),

]

installed_packages = []
uninstalled_packages = []

def run():

    is_ready = True

    for package_name, korean_name in required_packages:

        printed_name = "%s(%s)" % (korean_name, package_name)

        try:

            imported_package = import_module(package_name)

            installed_packages.append("%s 버전:%s" % (printed_name, imported_package.__version__))

        except:

            is_ready = False

            uninstalled_packages.append(printed_name)

    if is_ready:

        print("축하합니다! 3분 딥러닝 파이토치맛 예제 실행을 위한 환경설정이 끝났습니다.")

        print("설치된 라이브러리 정보:")

        for pkg in installed_packages:

            print(" * " + pkg)

    else:
```

```
print("미설치된 라이브러리가 있습니다.")

print("설치된 라이브러리 정보:")

for pkg in installed_packages:

    print(" * " + pkg)

print("미설치된 라이브러리 정보:")

for pkg in uninstalled_packages:

    print(" * " + pkg)

return is_ready
if __name__ == '__main__':
    run()
```

축하합니다! 3분 답러닝 파이토치맛 예제 실행을 위한 환경설정이 끝났습니다.

설치된 라이브러리 정보:

- \* 파이토치(torch) 버전:1.9.0+cu111
- \* 토치비전(torchvision) 버전:0.10.0+cu111
- \* 토치텍스트(torchtext) 버전:0.10.0
- \* 넘파이(numpy) 버전:1.19.5
- \* 맷플롯립(matplotlib) 버전:3.2.2
- \* 사이킷런(sklearn) 버전:0.22.2.post1

In [4]:

```
!nvcc -V
```

```
nvcc: NVIDIA (R) Cuda compiler driver
Copyright (c) 2005–2020 NVIDIA Corporation
Built on Mon_Oct_12_20:09:46_PDT_2020
Cuda compilation tools, release 11.1, V11.1.105
Build cuda_11.1.TC455_06.29190527_0
```

In [5]:

```
!nvidia-smi
```

Tue Nov 2 11:03:39 2021

|   |       |           |               |                           |                      |  |                    |  |                      |
|---|-------|-----------|---------------|---------------------------|----------------------|--|--------------------|--|----------------------|
| +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ |       |           |               |                           |                      |  |                    |  |                      |
| NVIDIA-SMI  |       | 495.29.05 |               | Driver Version: 460.32.03 |                      |  | CUDA Version: 11.2 |  |                      |
| +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ |       |           |               |                           |                      |  |                    |  |                      |
| GPU   | Name  |           | Persistence-M |                           | Bus-Id               |  | Disp.A             |  | Volatile Uncorr. ECC |
| Fan   | Temp  | Perf      | Pwr:Usage/Cap |                           | Memory-Usage         |  | GPU-Util           |  | Compute M.           |
|   |       |           |               |                           |                      |  |                    |  | MIG M.               |
| =====   |       |           |               |                           |                      |  |                    |  |                      |
| 0   | Tesla | K80       | Off           |                           | 00000000:00:04.0 Off |  |                    |  | 0                    |
| N/A   | 54C   | P8        | 31W / 149W    |                           | 0MiB / 11441MiB      |  | 0%                 |  | Default              |
|   |       |           |               |                           |                      |  |                    |  | N/A                  |
| +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ |       |           |               |                           |                      |  |                    |  |                      |

|                            |    |    |     |      |              |            |  |  |  |
|----------------------------|----|----|-----|------|--------------|------------|--|--|--|
| Processes:                 |    |    |     |      |              |            |  |  |  |
| GPU                        | GI | CI | PID | Type | Process name | GPU Memory |  |  |  |
|                            | ID | ID |     |      |              | Usage      |  |  |  |
| =====                      |    |    |     |      |              |            |  |  |  |
| No running processes found |    |    |     |      |              |            |  |  |  |

In [ ]: