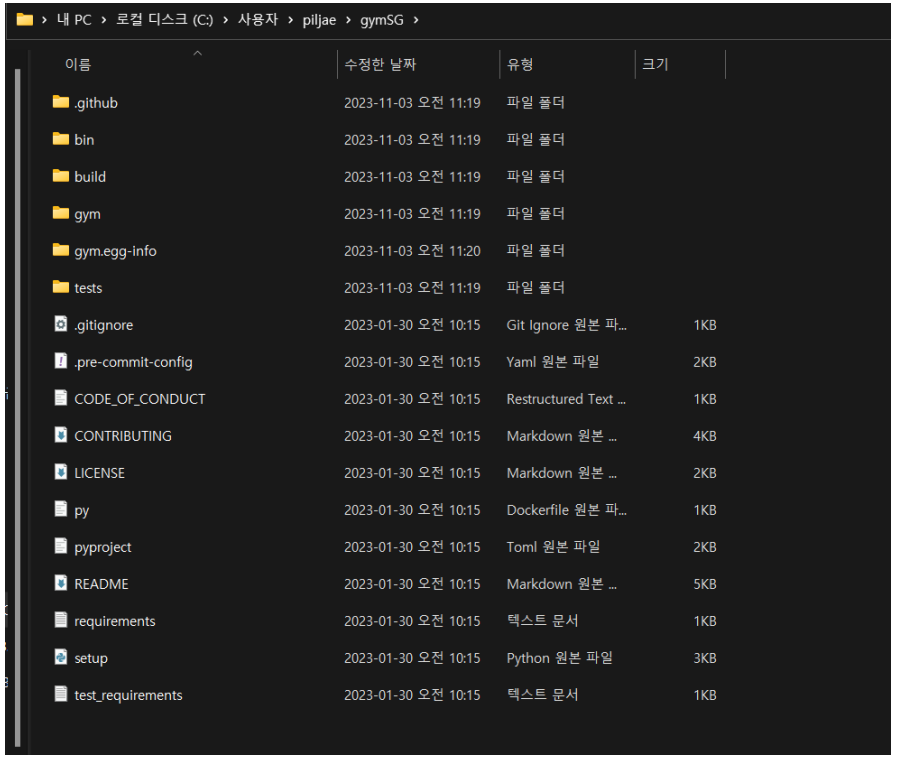
How to set up gym environment

Sogang University

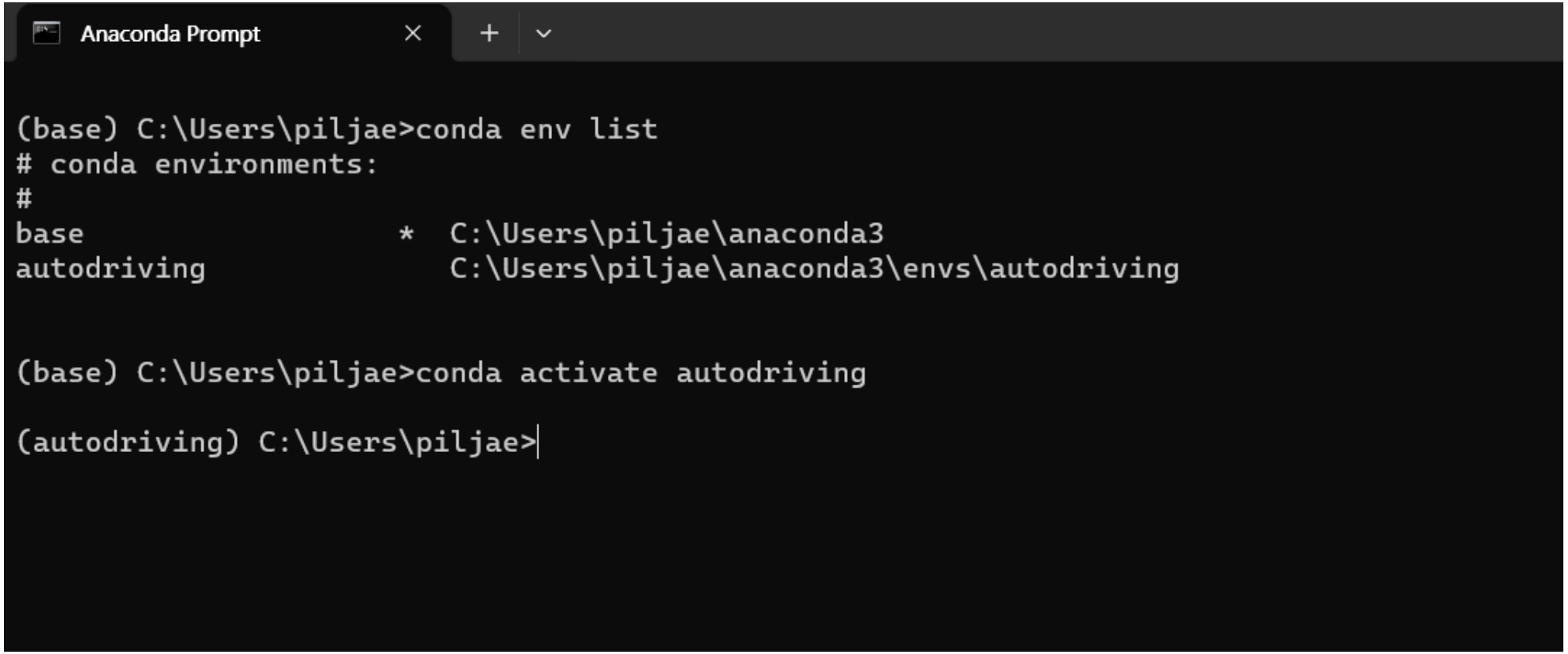
GymSG

- Cyber campu에 있는 gymSG.zip을 이용하여 설치
  (github와 코드차이가 있기 때문에 반드시 cyber campus에서 다운받아 설치)
- 다운을 받은 후 압축을 푼다.



Conda 환경 설정

- Anaconda prompt를 띄운 후 Conda 환경을 설정한다.



GymSG installation

- gymSG 디렉토리로 이동

```
(autodriving) C:\Users\piljae>dir
 C 드라이브의 볼륨에는 이름이 없습니다.
 볼륨 일련 번호: 5800-C4BF

 C:\Users\piljae 디렉터리

2023-11-03  오전 11:19    <DIR>          .
2023-03-16  오후 11:32    <DIR>          ..
2023-11-01  오후 05:40    <DIR>          .anaconda
2023-03-17  오후 12:38    <DIR>          .android
2023-11-01  오후 05:52    <DIR>          .conda
2023-11-01  오후 05:40                25 .condarc
2023-11-01  오후 05:40    <DIR>          .continuum
2023-03-17  오후 12:42    <DIR>          .m2
2023-09-07  오전 09:57    <DIR>          .vscode
2023-11-01  오후 05:38    <DIR>          anaconda3
2023-03-16  오후 11:15    <DIR>          Contacts
2023-11-03  오후 12:51    <DIR>          Desktop
2023-11-01  오후 05:38    <DIR>          Documents
2023-11-03  오전 11:08    <DIR>          Downloads
2023-03-16  오후 11:15    <DIR>          Favorites
2023-11-03  오전 11:19    <DIR>          gymSG
2023-03-17  오후 12:41    <DIR>          IdeaProjects
2023-03-16  오후 11:15    <DIR>          Links
```

dir 명령어를 사용하면 디렉토리와 파일을 확인 할 수 있다

```
(autodriving) C:\Users\piljae>cd gymSG

(autodriving) C:\Users\piljae\gymSG>
```

압축을 푼 gymSG 폴더로 이동한다.

GymSG installation

- 이후 다음 명령어로 설치 : pip install .

```
(autodriving) C:\Users\piljae\gymSG>pip install .
Processing c:\users\piljae\gymsg
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Requirement already satisfied: numpy>=1.18.0 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages (from gym==
0.26.2) (1.21.5)
Requirement already satisfied: importlib-metadata>=4.8.0 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages
 (from gym==0.26.2) (6.7.0)
Requirement already satisfied: cloudpickle>=1.2.0 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages (from
gym==0.26.2) (2.2.1)
Requirement already satisfied: gym-notices>=0.0.4 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages (from
gym==0.26.2) (0.0.8)
Requirement already satisfied: zipp>=0.5 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages (from importlib
-metadata>=4.8.0->gym==0.26.2) (3.15.0)
Requirement already satisfied: typing-extensions>=3.6.4 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages
(from importlib-metadata>=4.8.0->gym==0.26.2) (4.3.0)
Building wheels for collected packages: gym
  Building wheel for gym (pyproject.toml) ... done
  Created wheel for gym: filename=gym-0.26.2-py3-none-any.whl size=827645 sha256=86899bc659812705d3f2af8d98bab2935ede8e9
dc611ed6edf2a7406b7031e09
  Stored in directory: C:\Users\piljae\AppData\Local\Temp\pip-ephem-wheel-cache-m1470h4n\wheels\85\3a\59\b357a380eb7f268
feaac08fbda00fb5e71e701897d9dbc701c
Successfully built gym
Installing collected packages: gym
Successfully installed gym-0.26.2

(autodriving) C:\Users\piljae\gymSG>
```

Gym installation

- 이후 다음 명령어로 설치 : pip install gym[box2d]

```
(autodriving) C:\Users\piljae\gymSG\gym\envs\box2d>pip install gym[box2d]
Requirement already satisfied: gym[box2d] in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages (0.26.2)
Requirement already satisfied: cloudpickle>=1.2.0 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages (from
gym[box2d]) (2.2.1)
Requirement already satisfied: numpy>=1.18.0 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages (from gym[b
ox2d]) (1.21.5)
Requirement already satisfied: importlib-metadata>=4.8.0 in c:\users\piljae\anaconda3\envs\autodriving\lib\site-packages
 (from gym[box2d]) (6.7.0)
```

- gymSG/gym/envs/box2d로 이동, python car_racing.py 커멘드를 실행

```
(autodriving) C:\Users\piljae\gymSG\gym\envs\box2d>python car_racing.py
```

Car_racing.py 실행

Car_racing.py 실행 확인