

## SL 7 Exercise Python – Virtual Environment

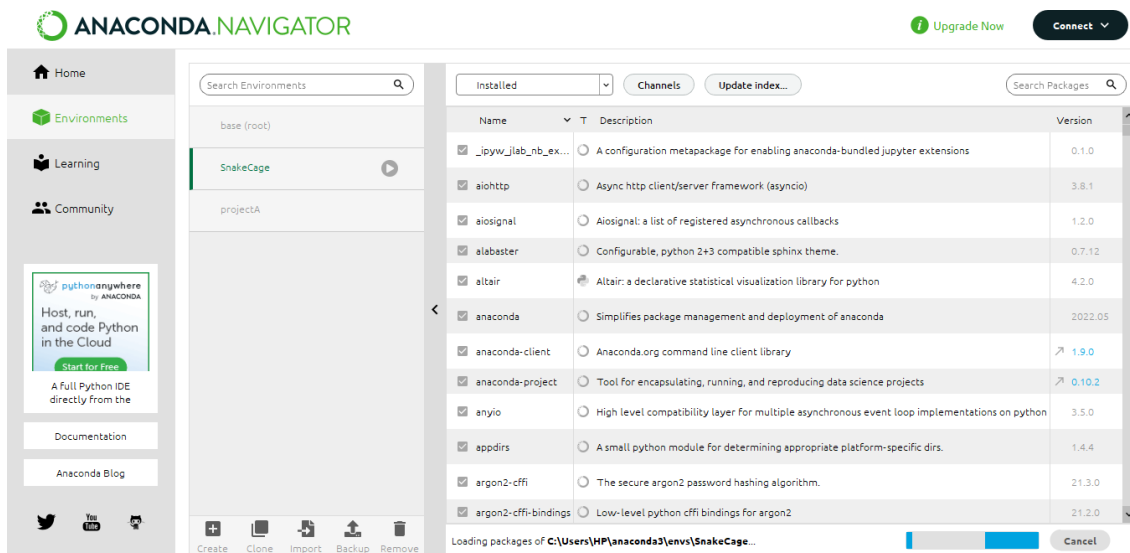
1.) Tuliskan program menggunakan Jupyter Notebook atau Google Colab!

```
import os
from gtts import gTTS
from audioplayer import AudioPlayer

congrats = 'Selamat, Anda telah berhasil mengelola sebuah environment'
language = 'id'
file_name = 'congratulations.mp3'

tts = gTTS(text=congrats, lang=language)
tts.save(file_name)
AudioPlayer(file_name).play(block=True)
print(congrats)
```

2.) Membuat Environmet baru dengan nama SnakeCage menggunakan Anaconda Navigator atau Comand Prompt



3.) Install package gtts dan audioplayer

```
Anaconda Prompt (anaconda3)

(SnakeCage) C:\Users\HP>pip install gtts
Collecting gtts
  Downloading gtts-2.2.4-py3-none-any.whl (26 kB)
Collecting click
  Using cached click-8.1.3-py3-none-any.whl (96 kB)
Collecting six
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting requests
  Using cached requests-2.28.1-py3-none-any.whl (62 kB)
Collecting colorama
  Using cached colorama-0.4.5-py2.py3-none-any.whl (16 kB)
Collecting urllib3<1.27,>=1.21.1
  Using cached urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
Collecting charset-normalizer<3,>=2
  Using cached charset-normalizer-2.1.1-py3-none-any.whl (39 kB)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\hp\anaconda3\envs\snakecage\lib\site-packages (from reques
ts->gtts) (2022.6.15)
Collecting idna<4,>=2.5
  Using cached idna-3.3-py3-none-any.whl (61 kB)
Installing collected packages: urllib3, six, idna, colorama, charset-normalizer, requests, click, gtts
Successfully installed charset-normalizer-2.1.1 click-8.1.3 colorama-0.4.5 gtts-2.2.4 idna-3.3 requests-2.28.1 six-1.16.
0 urllib3-1.26.12

(SnakeCage) C:\Users\HP>conda list
# packages in environment at C:\Users\HP\anaconda3\envs\SnakeCage:
#
# Name                        Version      Build      Channel
ca-certificates              2022.07.19   haa95532_0
certifi                      2022.6.15   py38haa95532_0
```

```
Anaconda Prompt (anaconda3)
wheel 0.37.1 pyhd3eb1b0_0
wincertstore 0.2 py38haa95532_2

(SnakeCage) C:\Users\HP>pip install audioplayer
Collecting audioplayer
  Downloading audioplayer-0.6-py3-none-any.whl (8.3 kB)
Installing collected packages: audioplayer
Successfully installed audioplayer-0.6

(SnakeCage) C:\Users\HP>conda list
# packages in environment at C:\Users\HP\anaconda3\envs\SnakeCage:
#
# Name Version Build Channel
audioplayer 0.6 pypi_0 pypi
ca-certificates 2022.07.19 haa95532_0
certifi 2022.6.15 py38haa95532_0
charset-normalizer 2.1.1 pypi_0 pypi
click 8.1.3 pypi_0 pypi
colorama 0.4.5 pypi_0 pypi
gtts 2.2.4 pypi_0 pypi
idna 3.3 pypi_0 pypi
openssl 1.1.1q h2bbff1b_0
pip 22.1.2 py38haa95532_0
python 3.8.13 h6244533_0
requests 2.28.1 pypi_0 pypi
setuptools 63.4.1 py38haa95532_0
six 1.16.0 pypi_0 pypi
sqlite 3.39.2 h2bbff1b_0
urllib3 1.26.12 pypi_0 pypi
vc 14.2 h21ff451_1
vs2015_runtime 14.27.29016 h5e58377_2
wheel 0.37.1 pyhd3eb1b0_0
wincertstore 0.2 py38haa95532_2

(SnakeCage) C:\Users\HP>
```

4.) Membuka directory (path) program MyCode.py pada terminal dan menjalankan program MyCode.py melalui environment SnakeCage

```
(base) C:\Users\HP\project>

(base) C:\Users\HP\project>conda activate SnakeCage

(SnakeCage) C:\Users\HP\project>python MyCode.py
Selamat, Anda telah berhasil mengelola sebuah environment!
```

5.) Menjalankan program menggunakan base

```
(SnakeCage) C:\Users\HP\project>conda activate base

(base) C:\Users\HP\project>python MyCode.py
Traceback (most recent call last):
  File "C:\Users\HP\project\MyCode.py", line 11, in <module>
    from gtts import gTTS
ModuleNotFoundError: No module named 'gtts'

(base) C:\Users\HP\project>_
```

6.) Kesimpulan : saat program dijalankan menggunakan base maka akan terjadi error, karena pada base belum terinstall package gtts dan audioplayer, maka untuk menjalankan sebuah program setiap package yang dibutuhkan harus di install terlebih dahulu.