A guide to debugging the source codes of "Inf-Net: Automatic COVID-19 Lung Infection Segmentation from CT Images" paper with Google Colab

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We are using "Google Colab".

First you must go to the "Edit" menu, then "Notebook settings" to set the "Hardware accelerator" as "GPU".

Training section

1- The problem of not finding the module named "Code".

```
ModuleNotFoundError

(ipython-input-3-fb0aaa870a2f≥ in <module>

14 import argparse
15 from datetime import datetime
---> 16 from Code.utils.dataloader_LungInf import get_loader
17 from Code.utils.utils import clip_gradient, adjust_lr, AvgMeter
18 import torch.nn.functional as F

ModuleNotFoundError: No module named 'Code'

NOTE: If your import is failing due to a missing package, you can manually install dependencies using either !pip or !apt.

To view examples of installing some common dependencies, click the "Open Examples" button below.

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```

Solved: We can solve that by following lines (note that "Inf-Net-master" is the name of main folder).

```
[4] cd '/content/Inf-Net-master'
/content/Inf-Net-master

import sys
sys.path.append('/content/Inf-Net-master')
```

2- No module named 'thop'

```
ModuleNotFoundError

Sipython-input-6-fb8aaa870a2f> in <module>
15 from datetime import datetime
16 from Code.utils.dataloader_LungInf import get_loader
---> 17 from Code.utils.utils import clip_gradient, adjust_Ir, AvgMeter
18 import torch.nn.functional as F
19

/content/Inf-Net-master/Code/utils/utils.py in <module>
2 import numpy as np
3 # 'pip install thop'
----> 4 from thop import profile
5 from thop import clever_format
6

ModuleNotFoundError: No module named 'thop'
-----
NOTE: If your import is failing due to a missing package, you can manually install dependencies using either lpip or lapt.

To view examples of installing some common dependencies, click the "Open Examples" button below.
```

Solved:



3- ipykernel_launcher.py: error: unrecognized arguments: -f

Solved:

```
!pip install ipykernel

import sys
sys.argv=['-f']
del sys
```

Testing section

1- module 'scipy.misc' has no attribute 'imsave'

Solved: "scipy.misc.imsave" has been deprecated in newer Scipy versions. We should change our code according to following photo.

```
#misc.imsave(opt.save_path + name, res)
import imageio
imageio.imwrite(opt.save_path + name, res)
```