Instructions to use MaskCycleGAN

Environment

```
PYTHONPATH="${PYTHONPATH}:/content/MaskCycleGAN-Augment"
```

pip install -r requirements.txt

Organize data

MaskCycleGAN-Augment

data_cache

clean
train
test
noisy
train
test

Train

```
python -W ignore::UserWarning -m mask_cyclegan_vc.train \
    --name demo\
    --seed 0 \
    -save_dir results \
    --speaker_A_id clean\
    --speaker_B_id noisy \
    --epochs_per_save 100 \
    --epochs_per_plot 10 \
    --num_epochs 100 \
    --batch_size 8 \
    --decay_after 1e4 \
    --sample_rate 8000\
    --num_frames 64 \
    --max_mask_len 50 \
    --gpu_ids 0 \
    --generator_lr 5e-4 \
    --discriminator_lr 5e-4 \
    --preprocess resize
```

//Sample rate and num_frames are not really used but just leftovers from the original code. They will be removed in later code cleaning steps.

Test

```
python -W ignore::UserWarning -m mask_cyclegan_vc.test \
    --name <experiment name>\
    --save_dir <directory with saved results>\
    --gpu_ids 0 \
    --speaker_A_id clean \
    --speaker_B_id noisy \
    --ckpt_dir <directory with saved checkpoints>  \
--load_epoch <epoch to test from>\
    --model_name generator_A2B
```

Note:

During test time, Set model name to generator_A2B to generate noisy from clean and enerator_B2A to generate clean from noisy.

During test time the code expects you to have both clean and noisy clips. So if you do not have clean clips during test time just put atleast 1 dummy .wav clip in the appropriate folder as a workaround for now. I will rectify the issue soon.