1. Environment setting

1.1. git clone / file upload

- code

```
1  !git clone https://github.com/facebookresearch/pifuhd # git repository 가져오기
2  cd /content/pifuhd/sample_images # sample 이미지 추가를 위한 폴더 이동
3
4  from google.colab import files
5
6  filename = list(files.upload().keys())[0] # sample image upload
```

- input image

1.2. file path setting

```
1   import os
2
3   try:
4     image_path = '/content/pifuhd/sample_images/%s' % filename
5   except:
6     image_path = '/content/pifuhd/sample_images/test.png' # example image
7   image_dir = os.path.dirname(image_path)
8   file_name = os.path.splitext(os.path.basename(image_path))[0]
9
10  # output pathes
11  obj_path = '/content/pifuhd/results/pifuhd_final/recon/result_%s_256.obj' % file_name
12  out_img_path = '/content/pifuhd/results/pifuhd_final/recon/result_%s_256.png' % file_name
13  video_path = '/content/pifuhd/results/pifuhd_final/recon/result_%s_256.mp4' % file_name
14  video_display_path = '/content/pifuhd/results/pifuhd_final/result_%s_256_display.mp4' %
    file_name
```

2. Preprecessing(for cropping image)

2.1. library setting / model checkpoint load

```
1  !git clone https://github.com/Daniil-Osokin/lightweight-human-pose-estimation.pytorch.git
2  cd /content/lightweight-human-pose-estimation.pytorch/
```

```
3   !wget
    https://download.01.org/opencv/openvino_training_extensions/models/human_pose_estimation/checkpoi
```