1. Region feature extraction  
   We follow M4C and use Detectron to extract the region features. The first step is trying to install Detectron following the version in this link (#3a38b7b):  
   <https://github.com/ronghanghu/mmf/blob/project/m4c/pythia/scripts/features/extract_features.md>   
     
   Once finished the Detectron installation, you could reference the following lines for the remaining required packages (assuming access to the basic packages).   
     
   “””  
   pip install opencv-python matplotlib scipy argparse  
   conda install -c conda-forge pillow glob2 tqdm  
   git clone <https://github.com/ronghanghu/vqa-maskrcnn-benchmark-m4c.git>  
   cd vqa-maskrcnn-benchmark-m4c  
   python setup.py build develop  
   “””  
     
   Once finished the installation, the feature extraction preparation should be mostly ready. Check the scripts for calling the extraction process.