Instructions for running imitation learning code:

1. Download the prostate dataset from PT1

- '/raid/candi/Iani/MRes_project/Reinforcement Learning/DATASETS/'
- '/raid/candi/Iani/Biopsy_RL/action_labels.h5' (pre-obtained labels)
- Patient_data_multiple_lesions.csv (downloaded from git repo)

2. OBTAINING PAIRED OBSERVATION-ACTION LABELS: writing_labels.py

- Change path names :
  PS_PATH : folder path of prostate dataset
  CSV_PATH : multiple_lesions.csv file path (should be included in git repo)
  LABELS_PATH : file name to save h5py into -> change to what is convenient for you

- Run writing_labels.py script to obtain h5py file

Note : I also have action_labels.h5 pre-saved already in PT1 if you want to use that (see point 1) ; otherwise run script writing_labels.py first before proceding to training_script.py

3. RUNNING TRAINING SCRIPT: train_script.py

- Change path names to those on your own device:
  PS_PATH
  LABELS_PATH
  CSV_PATH

- Run cli command : "python train_script.py --log_dir SAVE_FOLDER_PATH" and include any additional arguments listed below:

Arguments: All set to false, but can be set to true if you want to perform comparison experiments

- Debugging : uses timestep_debug class which only outputs [1 0 0] as action
- Use_custom_policy : uses tanh as final output layer of network instead of relu which is used in stablebaselines networks
- Clip_actions : clip output actions from network between (-1,1)