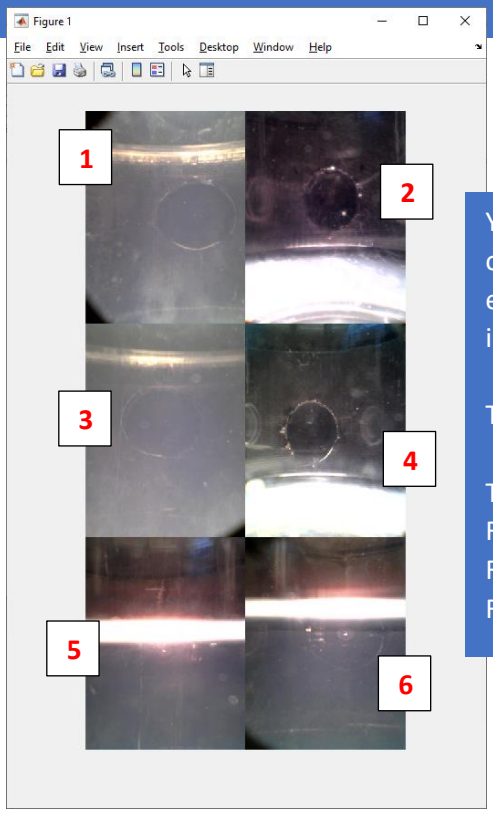
SUBPRO

CAMERA SETTING PROCEDURE

1. Go to the *Desktop\Image Capturing\Visualization – Matlab Codes*

2. Open ***FindingCameraOrder.m*.** Run the code and you get the figure below, which streams the camera images in real-time.



You must turn the light sources on and off in order to identify which camera belongs to each erosion box. The orders of the cameras in the same erosion box does not matter.

The camera order is indicated here

The erosion box order is
Frankie 1 (**F1**) – closest to the wall
Frankie 2 (**F2**) – in the middle
Frankie 3 (**F3**) – closest to you

3. After identifying the correct order, open ***SavingImages.m*** and update the camera order as well as the desired image capturing rate

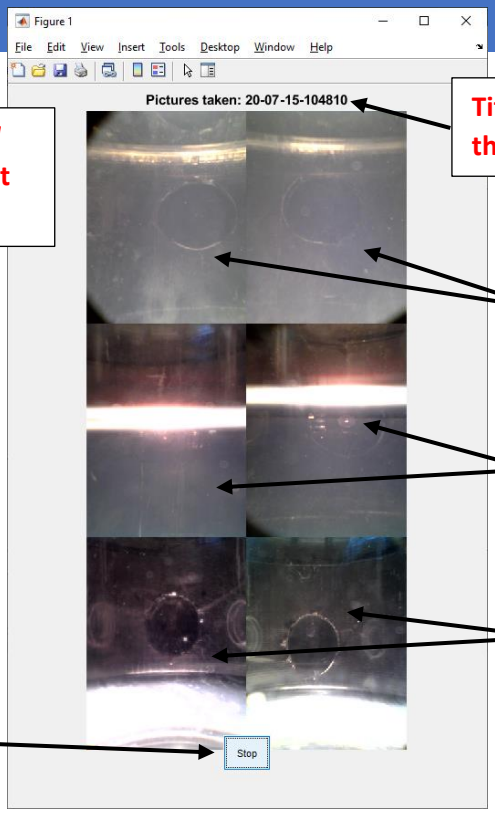
```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% CHANGE HERE, IF NECESSARY  (START) %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Camera order - it may change when the cameras are plugged in. Check using
% FindingCameraOrder.m
cam_F1 = [1, 3];
cam_F2 = [5, 6];
cam_F3 = [2, 4];
camOrder = [cam_F1, cam_F2, cam_F3];

%period between capturing two images [s]
nperiod = 30; % average time for running the code = 15s, hence nperiod > 15

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% CHANGE HERE, IF NECESSARY  (STOP) %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

camera order

Image capturing rate

3. Run the code.
It will create a folder in the current directory containing the images. The folders is named using the current date. If you want to run two experiments in the same day, copy the folder generated in the previous experiment to *Desktop\Image Capturing\Past Experiments*, otherwise the code will not run

4. After running the code, you will get a figure similar to the previous one:



The images refresh every *nperiod* seconds. The figure shows the last imaged saved in the folder

Title shows the approximated time the pictures were taken

Images from *Frankie 1*

Images from *Frankie 2*

Images from *Frankie 3*

Stop the image capturing here. It captures a final picture before ending the program.

END