**OPEN CV VEDIO PROCESS:**

Processing a video means, performing operations on the video frame by frame. Frames are nothing but just the particular instance of the video in a single point of time. We may have multiple frames even in a single second. Frames can be treated as similar to an image.  
So, whatever operations we can perform on images can be performed on frames as well. Let us see some of the operations with examples.

## Adaptive Threshold -By using this technique we can apply thresholding on small regions of the frame.

## Smoothing :

## Smoothing a video means removing the sharpness of the video and providing a blurriness to the video. There are various methods for smoothing such as cv2.Gaussianblur(), cv2.medianBlur(), cv2.bilateralFilter(). For our purpose, we are going to use cv2.Gaussianblur().

**Edge Detection**

Edge detection is a useful technique to detect he edges of surfaces and objects in the video. Edge detection involves the following steps: 

* Noise reduction
* Gradient calculation
* Non-maximum suppression
* Double threshold
* Edge tracking by hysteresis

## Bitwise Operations

Bitwise operations are useful to mask different frames of a video together. Bitwise operations are just like we have studied in the classroom such as AND, OR, NOT, XOR.