**Recording on Raspberry Pi for 12 hours using OpenCV**

from picamera.array import PiRGBArray

from picamera import PiCamera

import time

from datetime import datetime

import cv2

*#Define camera and specify parameters*

camera = PiCamera ()

camera.resolution = (640,480)

camera.framerate = 15

rawCapture = PiRGBArray (camera, size=(640,480))

time.sleep(0.1)

def get\_output(out=None) :

 if out:

 out.release()

 #*Specify where to save the video, the name of the video, and add date and time to file name.*

 return cv2.VideoWriter('/home/pi/Videos/IDage' + str(time.strftime('%m %d %Y %H %M %S')) + '.avi', cv2.VideoWriter\_fourcc(\*'MJPG'), 15, (640,480))

*# Define variables*

next\_time = time.time() + 60\*60

out = get\_output()

start\_time = time.time()

for frame in camera.capture\_continuous(rawCapture, format="bgr", use\_video\_port=True) :

 now = datetime.now()

 *#Start a new file when the time exceeds one hour (60 sec \* 60 min)*

 if time.time() > next\_time:

 next\_time += 60\*60

 out = get\_output(out)

 image = frame.array

 *#If the current time is more than 12 hours after the start time, stop recording*

 if time.time() > start\_time + 60\*60\*12: break

 *#Display the date and time on the video*

 frame = cv2.putText(image, str(now.strftime("%m/%d/%Y %H:%M:%S")),

 (10, 100), cv2.FONT\_HERSHEY\_SIMPLEX, 1, (210, 155, 155), 4, cv2.LINE\_8)

 out.write(frame)

 cv2.imshow("Frame", image)

 key = cv2.waitKey(1) & 0xFF

 rawCapture.truncate(0)

 if key == ord("q"):

 break